



2008 Product Catalog



Uniprise®

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Uniprise® Solutions: Your first choice for Last Mile connectivity



CommScope Enterprise Solutions, a division of CommScope, Inc., offers a complete portfolio of network infrastructure solutions that enable enterprise customers, regardless of size, industry or IT budget, to take advantage of business and technology opportunities. Through its Uniprise® brand, CommScope is helping businesses transform the way they operate by providing some of the industry's highest performing network infrastructure solutions for video, voice, data and intelligent building management applications.

The Uniprise Product Line

The Uniprise product line offers quality, easy-to-use copper, fiber and coax solutions that reliably supports customers' current structured cabling needs and also extend and protect their IT investment long into the future. Uniprise offerings are the safe choice for the customer that wants the best, most reliable network infrastructure solution competitively priced to suit their unique needs. The Uniprise portfolio of offerings include their UltraPipe®, UltraMedia®, DataPipe®, Media 6®, LaserCore and LightScope lines as well as specialized solutions for the government, K-12 education and mixed-use residential-commercial markets.

Environmental Stewardship

In addition to helping customers, CommScope is focused on environmental stewardship – one of the company's longtime fundamental values. CommScope's solutions can help customers to minimize energy consumption and long-term waste throughout the network as part of a larger concern for the impact of enterprise technology on the environment. Manufacturing products that last more than 20 years, offering integrated solutions that run on one network, and providing unparalleled vision and control to more efficiently manage existing resources—are all ways that CommScope's solutions contribute to a positive impact on the environment.

Support and Delivery

CommScope's solid footprint and extensive network of Business Partners ensures its customers receive a consistent level of services and support – providing access to CommScope's extensive product portfolio virtually anywhere at anytime. Another critical aspect of performance is installation and implementation. CommScope's Business Partners are among the industry's best network infrastructure implementation solution providers that adhere to the same high standards of expertise, performance, quality and reliability for which CommScope's solutions are known.

CommScope, Inc., through the Andrew Wireless Solutions brand is a global leader in radio frequency subsystem solutions for wireless networks. CommScope is also the premier manufacturer of coaxial cable for broadband cable television networks and one of the leading North American providers of environmentally secure cabinets for DSL and FTTN applications.

Product Depth

The Uniprise product portfolio features twisted pair and fiber optic solutions designed and manufactured to exacting specifications. Each is subjected to a rigorous third-party verification process whose requirements exceed those outlined by the accepted telecommunications standards. In addition, all Uniprise Solutions

are available with compatible connectors, jacks and faceplates, giving you a single source for all your structured cabling needs.

Twisted Pair

CommScope's unshielded twisted pair cables include a variety of Category 6 and Category 5e solutions for your most demanding LAN applications.

Category 6: Engineered for today's high-speed, full-duplex parallel transmission protocols, Uniprise Category 6 solutions are ideal for Fast Ethernet, Gigabit Ethernet, broadband video, 155Mb/s ATM, 100Mb/s TP-PMD/CDDI, and Voice Over IP. Three customized and innovative solutions, UltraPipe®, UltraMedia®, and Media 6®, are designed to take advantage of today's standard and emerging protocols. Each solution provides excellent headroom for future advances as well, ensuring you have room to grow.

Category 5e: Uniprise offers two different Category 5e solutions. The UltraII® and DataPipe® solutions are tested to 350 MHz and 200MHz, respectively. Both are supported by thorough third-party verification. Featuring interchangeability and excellent connectivity, Uniprise Solutions can be combined to address Category 5e applications including Gigabit Ethernet, broadband video, 155Mb/s ATM, 100Mb/s TP-PMD/CDDI, and Voice Over IP.

Fiber

Engineered and manufactured for unsurpassed connectivity and performance, Uniprise fiber solutions meet or exceed all industry standards for channel performance. Four multimode solutions and a truly unique single-mode fiber provide end-to-end channel performance for all your fiber applications, as well as allowing network upgrades far into the future.

Multimode: Uniprise multimode solutions ensure cost-effective deployment of your enterprise LAN network, and greater flexibility. Our stated channel distances are based on combined connector and splice loss, not just industry standard lengths, giving you greater latitude in design. Whether your network calls for 10 Megabit or 10 Gigabit, our fiber optic solutions meet or exceed industry standards. Single-Mode: The Uniprise LightScope ZWP® stands alone as the industry's first full-spectrum single-mode fiber. Taking advantage of the formerly unused "S" and "E" bands, it allows network designers to fully utilize the entire optical spectrum and is fully backwards compatible with existing single-mode networks.

Flexibility Now and in the Future

Uniprise Solutions provide greater flexibility to accommodate your future growth. Our copper connectivity is interchangeable within category, so you can upgrade within a category without having to change panels or jacks. And we offer a wide range of fiber connectivity. In addition to the standard SC, we also offer the ST, and small form factor LC, giving you the freedom to choose the best-fit solution for your telecommunications needs.

Dependability Guaranteed.

CommScope backs our Uniprise Solutions with the following guarantee:

The Uniprise Solutions Product and Applications Warranty assures that all Uniprise Solutions Products are free from material and

workmanship defects, and that a properly designed, installed, tested and registered structured cabling system will support any application intended to operate via media specified by ANSI/TIA/EIA-568-B series standards for a period of twenty (20) years from the date of Registration. This warranty applies only to Uniprise Solutions Products installed in a Structured Cabling System, which has been installed and maintained by a Uniprise Certified Installer.

The Uniprise Solutions Product and Applications Warranty covers all passive Uniprise Solutions Products installed in a registered Uniprise Solutions Structured Cabling System and the labor necessary for any corrective actions.

Add CommScope's quarter century of manufacturing experience and one of the most knowledgeable sales staff in the industry and the result is single-source convenience, product compatibility, and guaranteed peace of mind.

Uniprise Certified Installer Training



Through our Uniprise Certified Installer (UCI) training program, CommScope is working to guarantee the continued success of our customers. This model program provides in-depth instruction on the proper installation of a structured cabling system and is available to companies that meet CommScope's eligibility requirements.

The course consists of a 4-day standards-based training program that covers telecommunications Standards 568, 569, 606, and 607 and the NFPA 70 (NEC). The areas addressed include everything from planning, placing and terminating a structured cabling network, to final testing and proper maintenance of copper and fiber media. Products and applications installed by a Uniprise Certified Installer are automatically guaranteed for 20 years.

CommScope and the RoHS Directive



RoHS, adopted in July 2006, is an international environmental initiative that restricts the levels of potentially harmful materials, such as lead, cadmium, mercury, and hexavalent chromium, used in new electrical and electronic equipment.

Since the inception of RoHS, CommScope has worked to ensure that our manufacturing processes are aligned with these voluntary but important requirements. These principals are, in fact, very consistent with the company's policy toward environmental stewardship. We are proud to continue working toward a cleaner future.

ISO 9001:2000 Quality Management System Certification

CommScope is committed to manufacturing excellence in all aspects of its operations. Our policy is to design, manufacture, and deliver products and services which conform to the industry and customer specifications in every way. And we do that through our Quality Management System. ISO 9001:2000 is an internationally recognized

standard for the management of a quality system. CommScope has been certified to the ISO 9001:2000 Standard since 1994. Our conformance to the Standard provides our customers with the assurance that our business, product design, and production processes are congruent with the principles and philosophy underlying the ISO 9001:2000 Quality Management System family of standards. Specifically, that customer satisfaction and continuous improvement of our processes and products is a part of the core of what we do everyday.

CommScope: How Intelligence Travels.

Wired or wireless, we are all connected – to each other and the world. No matter what your business or what size, you depend on structured cabling to communicate. CommScope makes it possible, with high-performance coaxial, twisted pair and fiber optic cabling for Internet access, data networks, wireless communications, cable TV and telephony - more than 15 million feet of cable is produced per day, enough to circle the globe once every 10 days.

Based in North Carolina and publicly traded, CommScope is one of the few manufacturers to supply a complete range of coaxial, twisted pair and fiber optic cable. Every product demonstrates CommScope's significant investment in research, development, and technical expertise. With manufacturing operations on five continents and sales to more than 120 countries, we remain customer focused and committed to adding value to every transaction.

We support that commitment with a global sales staff and customer service experts who work together to ensure our customers have the answers and information they need. And with our private trucking fleet we ensure our customers have the products they need - no matter where in the continental U.S. they are located.

As a result, CommScope provides virtually everything our customers need to establish and maintain a consistent, high-performance, end-to-end network. Designed for reliability, CommScope structured cabling solutions deliver the mobility, flexibility and support that our customers expect and trust from a global leader.

CommScope. How Intelligence Travels.

CommScope: A History of Excellence

CommScope's history actually began in the early 1950's with the founding of Superior Cable Corporation. Today, CommScope a global leader in cable manufacturing.

1953

Superior Cable Corporation was founded in Hickory, North Carolina. Superior's primary product line was telephone cable.

1964

The CommScope name was first used by Superior Cable for their coaxial cables

1966

CommScope began manufacturing at the current site in the Sherrill's Ford community in Catawba County, NC.

1967

Continental Telephone Company bought Superior Cable Corporation and formed CommScope as a division under the new company, Superior Continental Corporation.

1976

Superior Continental sold the CommScope division to a group of Hickory area investors headed by Frank Drendel.

1977

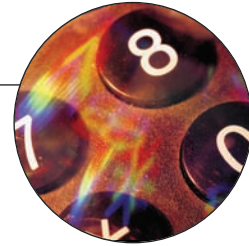
Looking ahead to the importance of fiber optic cable in the CATV industry, CommScope merged with Valtec, Inc., an independent leader in fiber optic technology.

1980

Valtec was sold to M/A-COM, Inc. in order to strengthen and diversify both companies' product lines. CommScope became part of the Cable Home Group for M/A-COM.

1983

The Network Cable division was established for local area network, data communications, TVRO and specialized wire markets.



CommScope: A History of Excellence



1986
M/A-COM, Inc. sold the Cable Home Group to General Instrument Corporation. CommScope became a division of General Instrument.



1988
The CommScope division restructured to CommScope under the direction of Frank Drendel.

1990
CommScope again became a division of General Instrument, owned by Forstmann, Little and Company.

1997

CommScope began trading as an independent company on the New York Stock Exchange (NYSE: CTV).



1998

CommScope purchased a coaxial cable manufacturing facility in Seneffe, Belgium.

1999

CommScope announced a 5-year, \$135 million expansion in Catawba County, significantly expanding its fiber optic and wireless manufacturing, research and development capabilities.

2000

CommScope purchased a facility in Jaguariúna, Brazil, and manufactures broadband cable products for the Latin American market. The company also established a new manufacturing and distribution facility in Sparks, NV.

2001

CommScope entered into a joint venture partnership with Furukawa Electric of Japan to acquire interest in Lucent's fiber optic cable business as part of Furukawa's purchase of Lucent's Optical Fiber Solutions business. The resulting partnership's name is OFS BrightWave, which is based in Norcross, Georgia.

2004

CommScope acquired Avaya's Connectivity Solutions business in January 2004. As a result of this transaction, SYSTIMAX® Solutions, globally recognized as a world leader in enterprise cabling systems, became part of the CommScope Enterprise Solutions group. A new group, CommScope Carrier Solutions™, was also formed to offer products designed for switching and transmission applications in telephone central offices as well as secure environmental enclosures.

2004

CommScope introduces Uniprise, a full range of copper and fiber network solutions. Products include cable and components.

2007

CommScope completes the acquisition of the Andrew Corporation and expands its role in the wireless industry. Andrew provides a one-stop source for managing the entire lifecycle of the network and delivers complete solutions that serve traditional wireless networks, third generation technologies, triple-play (voice, data, video) services, and specialized applications for microwave communications systems.

Uniprise

Copper

Fiber

Coax

Multi-Conductor

Conduit

Packaging

Glossary/Index

Uniprise Solutions: Many Applications – One Result



No matter what your business or how complex your organization, network infrastructure is all about staying connected. Nobody understands that better than CommScope. Armed with our technical expertise and leading edge solutions, CommScope is a trusted provider to the defense sector, educational institutions, financial and medical communities, as well as municipal government organizations. Secure, stable, and with enough flexibility to accommodate future growth – nobody understands network infrastructure more than CommScope. We keep you connected while keeping your options wide open.

Defense

A defense network has to be versatile, reliable and most importantly secure – carrying voice, video and data to military facilities and remote locations around the world, storing vast amounts of data for immediate retrieval, facilitating secure communications between facilities and providing 24/7 secured access. At the same time, contracting budgets are placing increasing emphasis on the ability to do more with less, making network flexibility and scalability critical. Uniprise Solutions helps balance all these requirements with systems that are secure, flexible and powerful. Uniprise Solutions is the preferred telecommunications solution for high-security defense applications.

Financial

Few industries rely on telecommunications more than the financial industry. When microseconds can be worth millions, speed, security, and complete dependability are critical. Uniprise Solutions gives you effortless control and unlimited capabilities. Communicate in real time via voice, video and data with branches, clients, and clearinghouses around the world. Keep confidential financial records under virtual lock and key. Uniprise Solutions helps you manage it all with coordinated products and systems designed to maximize flexibility while maintaining performance guarantees.

Healthcare

Primary care facilities, laboratory networks, the advancement of tele-medicine – today's medical facilities are only as powerful as the telecommunication systems upon which they rely. Which is why more and more are turning to CommScope's Uniprise Solutions. Our capabilities provide the ability to transmit, store and secure vast amounts of data and video and manipulate it in innovative and exciting ways. Our systems are helping to integrate communications among labs, wireless devices and laptops, from emergency room triage to post-care follow-up. Uniprise Solutions allows you to manage all the necessary connections.

Municipal

As the focus of municipal networks shifts from single application – such as automatic meter reading or public safety – to complex multi-application systems, network managers, designers, and planners must understand the current and future needs of all potential users within the scope of municipal services.

Municipal networks that at one time operated within a very limited scope are now expanding into a wider range of services in order to enhance mobility and provide for public access, public safety, and the public workforce. Most municipal network managers combine several kinds of networks and services to achieve these results. In addition to network reliability and security, it is more important than ever to consider service flexibility, expansion and maintenance costs for the future.

Education

From the ability to provide distance-learning opportunities to ensuring the integrity of confidential student records, your school's network has to be as versatile and secure as it is fast. Uniprise Solutions provides the perfect solution. Our proprietary systems and technical insights enable you to integrate and carry voice, video, and data to laptops, wireless devices and labs; facilitating communications

Uniprise

Copper

Fiber

Coax

Multi-Conductor

Conduct

Packaging

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Our product design features address the special requirements found in the municipal environment. From improved access to city services and mobile workforce communications to video surveillance and public safety, CommScope provides ease of installation and flexibility of additions and upgrades. Uniprise Solutions are the right choice for telecommunications infrastructures in the municipal environment

C O P P E R S O L U T I O N S

Category 6A

Category 6

Category 5e

ReadyPATCH™ Cu Solution

Voice Grade Systems

Modular Patch Panels

Cable Management

110 Solutions

Mixed-Use Network Solutions

Foiled Twisted Pair Solutions

Tools

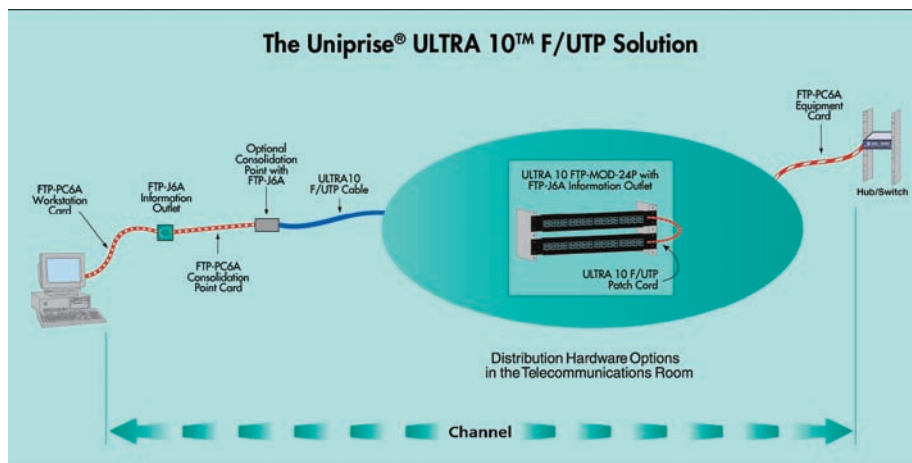
Category 6A

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Outlet	12
Cords	13
Cables	14

ULTRA 10™ Foiled/Unshielded Twisted Pair (F/UTP)



CommScope understands that customers need products that can help extend their IT budgets and allow them to leverage their network infrastructures to improve their businesses. The Uniprise ULTRA 10™ F/UTP Solution makes it possible to implement a 10G F/UTP structured cabling system that provides the perfect combination of product quality, performance, reliability and price. Appropriate for high-noise environments, the ULTRA 10 F/UTP Solution is capable of supporting the latest 10 Gbps Ethernet requirements. It offers superior channel performance and provides double the bandwidth of Category 6 cabling channels and guaranteed performance in worst-case installation conditions out to 500MHz. Backed by CommScope's development capabilities, the ULTRA 10 F/UTP Solution is designed to provide the right level of proven technology, offering reliability and performance for everyday applications.



UNIPRISE® ULTRA 10™ F/UTP CHANNEL PERFORMANCE

The Uniprise ULTRA 10 F/UTP cabling system is designed to meet or exceed the specific channel requirements of the ISO/IEC 11801:2002 Class EA and ANSI/TIA-568-B.2-10 Category 6A standards. Utilizing the unique design tools available to CommScope Labs, the ULTRA 10 F/UTP Solution incorporates F/UTP technology while maintaining pair balance and without degrading the internal channel transmission performance.

UNIPRISE® ULTRA 10™ F/UTP PERFORMANCE SPECIFICATIONS

Channel Performance Specifications for the Uniprise ULTRA 10 F/UTP Solution												
Freq (MHz)	Insertion Loss (db)	PS ANEXT (db)	Avg. PS ANEXT (db)	PS AACR-F (db)	Avg. PS AACR-F (db)	NEXT (db)	ACR-N (db)	PS NEXT (db)	PS ACR (db)	ACR-F (db)	PSACR-F (db)	Return Loss (db)
1	4.0	67.0	69.25	67.0	71.0	65.0	61.0	62.0	58.0	63.3	60.3	19.0
4	4.2	67.0	69.25	65.0	69.0	63.0	58.9	60.5	56.4	51.2	48.2	19.0
8	5.8	67.0	69.25	58.9	62.9	58.2	52.5	55.6	49.9	45.2	42.2	19.0
10	6.5	67.0	69.25	57.0	61.0	56.6	50.2	54.0	47.6	43.3	40.3	19.0
16	8.2	67.0	69.25	52.9	56.9	53.2	45.1	50.6	42.5	39.2	36.2	18.0
20	9.2	67.0	69.25	51.0	55.0	51.6	42.5	49.0	39.9	37.2	34.2	17.5
25	10.2	66.0	68.25	49.0	53.0	50.0	39.8	47.3	37.1	35.3	32.3	17.0
31.2	11.5	65.1	67.35	47.1	51.1	48.4	37.0	45.7	34.3	33.4	30.4	16.5
62.5	16.4	62.0	64.25	41.1	45.1	43.4	27.1	40.6	24.3	27.3	24.3	14.0
100	20.9	60.0	62.25	37.0	41.0	39.9	19.1	37.1	16.3	23.3	20.3	12.0
200	30.1	55.5	57.75	31.0	35.0	34.8	4.8	31.9	1.9	17.2	14.2	9.0
250	33.9	54.0	56.25	29.0	33.0	33.1	- 0.7	30.2	- 3.6	15.3	12.3	8.0
300	37.4	52.8	55.05	27.5	31.5	31.7	- 5.6	28.8	- 8.5	13.7	10.7	7.2
400	43.7	51.0	53.25	25.0	29.0	29.6	- 14.0	26.6	9.3	11.2	8.2	6.0
500	49.3	49.5	51.75	23.0	27.0	27.9	- 21.4	24.8	- 24.5	9.3	6.3	6.0

Note: Values at specific frequencies for information only. Performance shall be met on a swept frequency basis as per the above listed formula. The Uniprise ULTRA 10 F/UTP Solution offers guaranteed channel performance to the above specifications for registered Uniprise installations.

Patch Panel

ULTRA 10™ Modular F/UTP Patch Panel

The Uniprise modular F/UTP patch panel (FTP-MOD-24P) is a 19-inch rack mounted panel that can be configured for up to 24 copper and/or fiber terminations. The panel features rear cable management for consistent cable routing and grounding studs for reliable grounding of the cable shield.

When installed with Uniprise ULTRA 10 F/UTP information outlets, patch cords and cable, the result is unparalleled end-to-end channel performance and superior electromagnetic compatibility performance in high external noise environments.

Features:

- Accommodates 24 F/UTP information outlets for easy termination of 4-pair F/UTP cable
- 1U design maximizes rack space
- Plug-and-play design provides easier termination and facilitation of moves, adds and changes
- Modularity will support F/UTP and fiber terminations
- Electrical performance guaranteed to meet or exceed the channel specifications of ISO/IEC 11801 Class EA and ANSI/TIA-568-B.2-10 Category 6A
- UL® listed (CM)
- Supports high-bandwidth applications, including network line speeds up to at least 10 Gbps
- Qualifies for a Uniprise 10G F/UTP Solutions 20-Year Extended Product Warranty when included in a certified Uniprise 10G F/UTP channel

Specifications

Physical Specifications	
Height	24-Ports 1.75 in (4.45 cm)
Width	19 in (48.20 cm)
Depth	4.16 in (10.60 cm)

Catalog Number	Packaging
FTP-MOD-24P	1/pkg



FTP-MOD-24P Modular F/UTP Patch Panel

Information Outlet

ULTRA 10™ F/UTP Information Outlet

The FTP-J6A information outlet features proprietary crosstalk cancellation techniques for superior performance and a unique gray-colored inner tab that identifies each outlet as a Uniprise ULTRA 10 F/UTP component. The design of the information outlet offers enhanced strain relief for the F/UTP jacket and foil and a snap feature for secure shield assembly. The FTP-J6A outlets are made to mate with the Uniprise Ultra 10 F/UTP patch cords to minimize signal reflections and significantly improve performance.

Features:

- Snaps into standard faceplates, surface mount boxes and consolidation point boxes
- Universal design and label supports both T568 A and B wiring
- IDC connector terminations on rear of base allow quick and easy installation of 22 to 24 AWG cable
- Electrical performance guaranteed to meet or exceed the channel specifications of ISO/IEC 11801:2002 Class EA and ANSI/TIA-568-B.2-10 Category 6A
- UL® listed (CM)
- Supports high-bandwidth applications, including network line speeds up to at least 10 Gbps
- Qualifies for a Uniprise 10G F/UTP Solutions 20-Year Extended Product Warranty when included in a certified Uniprise 10G F/UTP channel

Specifications

Physical Specifications	
Width	0.80 in. (20 mm)
Length	1.61 in. (41 mm)
Depth	0.82 in. (21 mm)
Plastic	High-impact, flame retardant, UL-rated 94V-0 thermoplastic
Jack Wires	Copper alloy, 1.27 μ m lubricated gold plating over 2.54 μ m nickel underplate
Connectors	Copper alloy, 2.54 μ m bright solder over 2.54 μ m nickel underplate
Insertion Life	>750 insertions of an FCC 8 position telecommunications plug
Min. Contact Force	100 g using FCC approved modular plug
Min. Plug Retention Force	133 N
Operating Temperature Range	14°F to 140°F (-10°C to 60°C)

Electrical Specifications	
Min. Insulation Resistance	500 m Ω
Min. Dielectric Withstand Voltage	1000 V DC or AC peak (contact to contact @ 60 Hz)
Min. Dielectric Withstand Voltage	1500 V DC or AC peak
Max. Contact Resistance	100 m Ω
Max. Contact Resistance Variation	≤ 20 m Ω
Current Rating @ 20° C	1.5 A

Catalog Number	Packaging	Color
FTP-J6A	1/pkg	Silver



FTP-J6A Information Outlet



FTP-J6A Information Outlet
with FTP-PC6A Patch Cord



Patch Cords



ULTRA 10™ F/UTP Patch Cords

The Uniprise ULTRA 10 F/UTP modular patch cord is ideal for use at both ends of a Uniprise 10G F/UTP channel and consists of high-quality components designed to assure high performance in Category 6A applications. The FTP-PC6A modular patch cord has a patented plug design that offers extremely high electrical performance with low variability. These patch cords meet ISO/IEC 11801 Class E_A and ANSI/TIA-568-B.2-10 Category 6A standards.

Features:

- Enhanced plug design and a unique manufacturing process assure high electrical performance with low variability
- Improved anti-snap feature provides maximum protection from snagging during moves, adds and changes
- Electrical performance guaranteed to meet or exceed the channel specifications of ISO/IEC 11801:2002 Class EA and ANSI/TIA-568-B.2-10 Category 6A
- UL® listed (CM)
- Supports high-bandwidth applications, including network line speeds up to at least 10 Gbps
- Qualifies for a Uniprise 10G F/UTP Solutions 20-Year Extended Product Warranty when included in a certified Uniprise 10G F/UTP channel

Specifications

Physical Specifications	
Operating Temperature Range	14°F to 140°F (-10°C to 60°C)
Contact Stability	20 mΩ max. change
Insertion Life	750 insertions
Contact Plating	1.27 μm Gold over 2.540 μm Nickel

Catalog Number	Length	Packaging	Color
FTP-PC6A-GY3	3 ft	1/pkg	Gray
FTP-PC6A-GY5	5 ft	1/pkg	Gray
FTP-PC6A-GY7	7 ft	1/pkg	Gray
FTP-PC6A-GY10	10 ft	1/pkg	Gray
FTP-PC6A-GY15	15 ft	1/pkg	Gray
FTP-PC6A-GY25	25 ft	1/pkg	Gray
FTP-PC6A-GY50	50 ft	1/pkg	Gray
FTP-PC6A-RD3	3 ft	1/pkg	Red
FTP-PC6A-RD5	5 ft	1/pkg	Red
FTP-PC6A-RD7	7 ft	1/pkg	Red
FTP-PC6A-RD10	10 ft	1/pkg	Red
FTP-PC6A-RD15	15 ft	1/pkg	Red
FTP-PC6A-RD25	25 ft	1/pkg	Red
FTP-PC6A-RD50	50 ft	1/pkg	Red
FTP-PC6A-BL3	3 ft	1/pkg	Blue
FTP-PC6A-BL5	5 ft	1/pkg	Blue
FTP-PC6A-BL7	7 ft	1/pkg	Blue
FTP-PC6A-BL10	10 ft	1/pkg	Blue
FTP-PC6A-BL15	15 ft	1/pkg	Blue
FTP-PC6A-BL25	25 ft	1/pkg	Blue
FTP-PC6A-BL50	50 ft	1/pkg	Blue



FTP-PC6A Patch Cord



FTP-PC6A
Translucent Sled



FTP-PC6A
Patch Cord Plug

ULTRA 10™ F/UTP Cables

10GS4 & 10GNS4 ULTRA 10™ F/UTP Cables

Available in Plenum and Non-Plenum constructions, Uniprise ULTRA 10 F/UTP cables are designed to give channel performance exceeding Class EA channel specifications. These cables feature a round, smooth shape that provides ease of handling and termination. A patented pair isolator improves pair separation and cable flexibility, while an optimized twist and strand scheme enhances high-frequency performance.

Uniprise ULTRA 10 F/UTP cables have been specified out to 500MHz to support high-bandwidth applications.

Features:

- Electrical performance guaranteed to meet or exceed the channel specifications of ISO/IEC 11801:2002 Class EA and ANSI/TIA-568-B.2-10 Category 6A
- 4-pair construction with aluminum foil tape and isolator center member provides extra margin of performance necessary for high-bandwidth applications
- Supports high-bandwidth applications, including network line speeds up to at least 10 Gbps
- Flexible jacket strips cleanly and resists kinking
- Co-extruded color striped pairs for easy identification
- 1,000 to 0 footage markers every two feet
- Available in reels


Specifications

Physical Specifications	10GS4	10GNS4
Nominal Outer Jacket OD	0.290 in. (7.4 mm)	0.296 in. (7.5 mm)
Nominal Jacket Thickness	0.016 in. (0.41 mm)	0.020 in. (0.51 mm)
Maximum Pulling Tension	25 lbs (11.3 kg)	25 lbs (11.3 kg)
Nominal Cable Weight	42.0 lbs/kft (17.4 kg)	35 lbs/kft (18.3 kg)
Operating Temperature	-4°F to 140°F (-20°C to 60°C)	-4°F to 140°F (-20°C to 60°C)
Installation Temperature	32°F to 140°F (0°C to 60°C)	32°F to 140°F (0°C to 60°C)
Conductor Diameter	23 AWG	23 AWG
Jacket Material	PVDF	PVC
UL Type	CMP	CMR, CMG

Electrical Specifications	10GS4	10GNS4
Nominal Velocity of Propagation	72%	69%
Maximum DC Resistance	8.0 Ohms/100m	8.0 Ohms/100m
Maximum DC Resistance Unbalance	3%	3%
Maximum Mutual Capacitance at 1 KHz	5.6 nF/100m	5.6 nF/100m
Minimum Dielectric Strength	1500 VAC or 2500 VDC	1500 VAC or 2500 VDC
Voltage Safety Rating	300 Volts per NEC 800.179	300 Volts per NEC 800.179

ULTRA 10™ F/UTP Cable

Catalog Number	Description	Color
10GS4	Plenum Cable	Gray, Red, Blue
10GNS4	Non-Plenum Cable	Gray, Red, Blue



C O P P E R S O L U T I O N S

Category 6A

Category 6

Category 5e

ReadyPATCH™ Cu Solution

Voice Grade Systems

Modular Patch Panels

Cable Management

110 Solutions

Mixed-Use Network Solutions

Foiled Twisted Pair Solutions

Tools

Category 6

Panels	18
Outlets	21
Cords	23
Cables	25

Patch Panels

UNP610 Patch Panels

The UNP610 panels are available in 18, 24 and 48 port versions and are designed to mount into standard 19-inch racks and cabinets. The panel back consists of craft friendly color-coded gas-tight insulation displacement connections. Design features include termination options for either T568A or T568B wiring schemes.

The UNP610 patch panels include integrated label holders with clear label covers and white paper labels. Label holders accept UNJ icons in a wide array of colors and icons can be installed over each individual port. Rear cable management bar can be quickly mounted directly onto the rear of the panels without any hardware. The bar can be installed from the rear of the frame or attached to the panels prior to being mounted. The 18-port version includes (1) cable management/strain relief bar, the 24-port version includes (1) cable management/strain relief bar, and the 48-port comes with (2).

Applications:

- Telecommunications rooms, equipment rooms, main cross-connects, intermediate cross-connects, data centers

Meets/exceeds:

- Category 6/Class E requirements of ISO/IEC 11801, CENELEC EN50173-1 AND TIA/EIA 568B.2-1
- UL® Listed

Specifications

Physical Specifications	
Insertion Life:	750 cycles min.
Wire Insertion Force:	24 AWG = 13-28lbs. (58-125N)
Flammability Rating:	UL-rated 94V-0
Insulation Resistance:	500 megaohms minimum
Current Rating:	1.5A at 68°F (20°C)
Dielectric Withstand Voltage:	1000 VAC RMS, 60Hz minimum, contact-to-contact and 1500 VAC RMS, 60Hz minimum to exposed conductive surface
Listing:	UL and cUL Listed



Easy to mount rear cable management bar - provided with each panel.

UNP610-48P



UNP610-24P



UNP610-18P



Catalog Number	Description	Packaging
UNP610-18P	Category 6 18 Port Patch Panel, 1.75" (4.45cm) H x 19.0" (48.3cm) W x 1.725" (4.38cm) D	1/Pkg
UNP610-24P	Category 6 24 Port Patch Panel, 1.75" (4.45cm) H x 19.0" (48.3cm) W x 1.725" (4.38cm) D	1/Pkg
UNP610-48P	Category 6 48 Port Patch Panel, 3.5" (4.45cm) H x 19.0" (48.3cm) W x 1.725" (4.38cm) D	1/Pkg

Patch Panels

12 Port Wall-Mount Patch Panel

The Uniprise 12 Port Wall-Mount Patch Panel (UNP610-WM-12P) is designed for wall-mount applications and for quick and repeatable configuration of Category 6 circuits. The panel back consists of gas-tight insulation displacement connections for secure termination. Craft-friendly design features include terminations for either T568A or T568B wiring schemes. These panels include integrated label holders with clear label covers and white paper labels. Label holders accept UNJ icons in a wide array of colors and icons can be installed over each individual port.

Applications:

- For use anywhere patching requirements are limited and must be wall-mounted

Meets/exceeds:

- Category 6/Class E requirements of ISO/IEC11801, CENELEC EN 50173-1 and TIA/EIA-568-B.2.1
- UL® Listed

Features:

- Panels snap into wall-mount bracket (incl.) and can be easily removed
- Panel can be held by the wall-mount bracket during termination
- Ports numbered on the front of the panel
- Color-coded rear labels included for 568A and 568B wiring

Specifications

Physical Specifications	
Insertion Life:	750 cycles min.
Min. Contact Force:	100 g min (3.5 oz).
Min. Plug Retention Force:	133 N min.
Operating Temperature Range:	-10 to 60°C
Storage Temperature Range:	-40 to 66°C
Humidity:	5 to 95% (noncondensing)
Height:	25.4 cm (10 in)
Width:	8.13 cm (3.2 in)
Depth:	5.08 cm (2 in)



UNP610-WM-12P



Wall-Mount Patch Panel

Catalog Number	Description
UNP610-WM-12P	Category 6 Patch Panel for wall-mount applications

Patch Panels

Angled Patch Panels

Uniprise Angled Panels are designed for quick and repeatable configuration of Category 6 circuits. The panel back consists of gas-tight insulation displacement connections for secure termination.

The UNP610 angled panels include integrated label holders with clear label covers and white paper labels. Label holders accept UNJ icons in a wide array of colors and icons can be installed over each individual port. A rear cable management bar can be quickly mounted directly onto the rear of the panels without any hardware. The bar can be installed from the rear of the frame or attached to the panels prior to being mounted. The 24-port version includes (1) cable management/strain relief bar, while the 48-port comes with (2). Insertion life exceeds 750 cycles. Angled panels allow the routing of patch cords directly to the vertical cable management, eliminating the need for horizontal patchcord organizers.

Uniprise Angled Panels are available in 24 and 48-port versions.

Applications:

- For use in Telecommunications room, equipment rooms and data centers for main, intermediate and horizontal connections

Meets/exceeds:

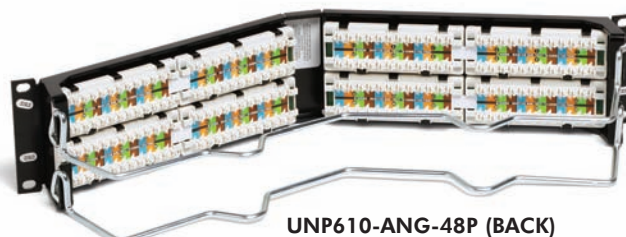
- Category 6 requirements of ISO/IEC11801, CENELEC EN 50173-1 and TIA/EIA-568-B.2 and TIA/EIA-568-B.2.1
- UL® Listed

Specifications

Physical Specifications	
Insertion Life:	750 cycles min.
Min. Contact Force:	100 g min (3.5 oz).
Min. Plug Retention Force:	133 N min.
Operating Temperature Range:	-10 to 60°C
Storage Temperature Range:	-40 to 70°C
Humidity:	5 to 95% (noncondensing)
Height: 24-Ports:	4.38 cm (1 u)
48-Ports:	8.83 cm (2 u)
Width:	48.26 cm (19 in)
Depth:	8.6 cm (3.38 in)

Angled Panels

Catalog Number	Description	Ports	Packaging
UNP610-ANG-24P	Category 6	24-port	1/Pkg
UNP610-ANG-48P	Category 6	48-port	1/Pkg



Information Outlets

Category 6 Outlets

UNJ600 Category 6 Outlets deliver optimum performance to the work area. Proprietary design delivers excellent crosstalk (both NEXT and PSNEXT) margins with superior reliability. Jack and outlet contacts are gold/nickel-plated copper alloy for outstanding signal transmission. Insulation displacement connectors are solder/nickel-plated copper.

UNJ600 Category 6 outlets meet applicable safety standards and are available in 11 colors. UNJ600 outlets are required for Category 6 performance and are also compatible with standard RJ45 plugs.

- Multi-colored identification labels assure fast, accurate installation.
- Universal terminations for T568A/B wiring schemes.
- Low-profile wire cap protects against contamination and provides secure connections.
- Can be mounted either at 90 degrees (straight) or at 45 degree (angled). Angled feature eliminates the need for special faceplates or outlets.
- Wide channel for enhanced conductor placement and termination.
- Snap-on icons provided in strips of three: DATA, VOICE and BLANK, and are also sold separately in bulk packs of 25.
- D-Impact Tool or wire cap can be used to terminate the wire conductor.

Applications:

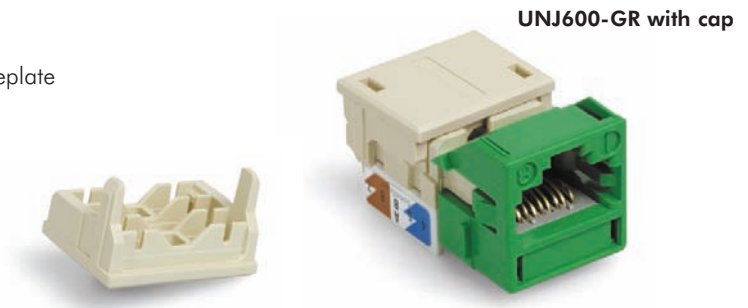
- Work areas

Meets/exceeds:

- Category 6/Class E requirements of ISO/IEC 11801, CENELEC EN50173-1 AND TIA/EIA 568B.2-1
- UL® Listed

Features:

- Caps can be used as a tool to remove the outlet from the faceplate



UNJ600-GR with cap

Specifications

Physical Specifications	
Width:	0.787 in (2 cm)
Length:	0.787 in (2 cm)
Depth:	1.22 in (3.1 cm)
Plastic:	High-impact, flame retardant, UL-rated 94 V-0 thermoplastic
Insertion Life:	> 750 insertions of an IEC 8 position plug
Min. Contact Force:	100 g using FCC-approved modular plug
Min. Plug Retention Force:	133 N
Operating Temperature Range:	14 to 140 °F (-10 to 60 °C)

Electrical Specifications	
EIA/TIA Category:	6
Min. Insulation Resistance:	500M Ω
Min. Dielectric Withstand Voltage (Contact to contact @ 60 Hz):	1000 VAC RMS
Min. Dielectric Withstand Voltage (To exposed conductive surface @ 60 Hz):	1500 VAC RMS
Max. Contact Resistance:	20 m Ω
Current Rating @ 20°C:	1.5 A

Information Outlets

Category 6 Outlets

Category 6 Information Outlets

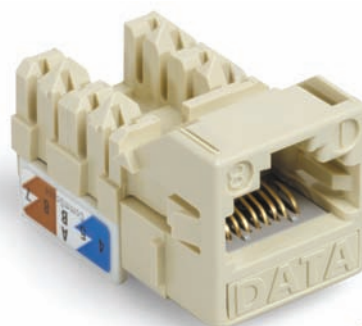
Catalog Number	Packaging	Color
UNJ600-BL	1/Pkg	Blue
UNJ600-OR	1/Pkg	Orange
UNJ600-GR	1/Pkg	Green
UNJ600-GY	1/Pkg	Gray
UNJ600-WH	1/Pkg	White
UNJ600-RD	1/Pkg	Red
UNJ600-BK	1/Pkg	Black
UNJ600-YL	1/Pkg	Yellow
UNJ600-IV	1/Pkg	Ivory
UNJ600-VL	1/Pkg	Violet
UNJ600-CM	1/Pkg	Cream

Bulk

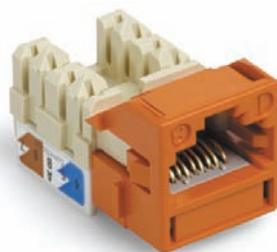
UNJ600-BL-100PK	100/Pkg	Blue
UNJ600-OR-100PK	100/Pkg	Orange
UNJ600-GR-100PK	100/Pkg	Green
UNJ600-GY-100PK	100/Pkg	Gray
UNJ600-WH-100PK	100/Pkg	White
UNJ600-RD-100PK	100/Pkg	Red
UNJ600-BK-100PK	100/Pkg	Black
UNJ600-YL-100PK	100/Pkg	Yellow
UNJ600-IV-100PK	100/Pkg	Ivory
UNJ600-VL-100PK	100/Pkg	Violet
UNJ600-CM-100PK	100/Pkg	Cream

Bulk Icons

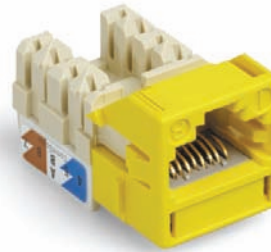
Catalog Number	Packaging	Color
UNJ-ICON-BL	25/Pkg	Blue
UNJ-ICON-OR	25/Pkg	Orange
UNJ-ICON-GR	25/Pkg	Green
UNJ-ICON-GY	25/Pkg	Gray
UNJ-ICON-WH	25/Pkg	White
UNJ-ICON-RD	25/Pkg	Red
UNJ-ICON-BK	25/Pkg	Black
UNJ-ICON-YL	25/Pkg	Yellow
UNJ-ICON-IV	25/Pkg	Ivory
UNJ-ICON-VL	25/Pkg	Violet
UNJ-ICON-CM	25/Pkg	Cream



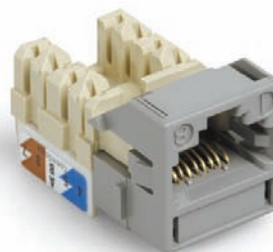
UNJ600-IV with icons



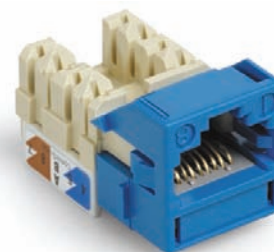
UNJ600-OR



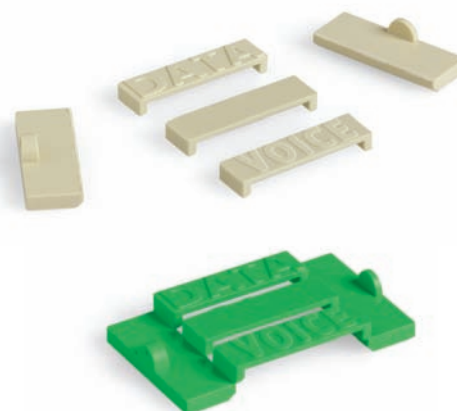
UNJ600-YL



UNJ600-GY



UNJ600-BL



Patch Cords



Category 6 Patch Cords

Uniprise Category 6 patchcords are high-performance U/UTP components available in an broad range of lengths and easy-to-trace colors. They are designed to meet or exceed all Category 6 specifications, yet are fully backward compatible with Category 5e and lower systems.

24 AWG conductors are securely mated with a patented RJ45 plug design to deliver superior electrical performance with excellent repeatability. The unique anti-snagging feature simplifies removal and replacement of patchcords.

Applications:

- Patch and equipment cords

Meets/exceeds:

- Category 6/Class E requirements of ISO/IEC 11801, CENELEC EN50173-1 AND TIA/EIA 568B.2-1
- UL® Listed

Features:

- Narrow Boot/Strain Relief
 - Supports high density installations
 - Cord fits into narrow jack locations
 - Uniform appearance between the Cat 6 and Cat 5e patch cords
- High Performance
 - Maintains Uniprise channel performance
 - Strong component performance - supporting "open architecture"
 - Exceeds cordage requirements of TIA 568B.2-1 and ISO/IEC 11801
- Packaging Enhancements
 - Easy to open perforated edge
 - Hang tabs for retail display
 - Supports automated inventory management/UPC barcode included
- Available in 9 standard colors and 10 standard lengths



UNC6-BL-5F

Specifications

Catalog Number	Length	Packaging
UNC6-XX-1F	0.3 m (1 ft)	1 ea
UNC6-XX-3F	0.91 m (3 ft)	1 ea
UNC6-XX-5F	1.5 m (5 ft)	1 ea
UNC6-XX-7F	2.1 m (7 ft)	1 ea
UNC6-XX-10F	3 m (10 ft)	1 ea
UNC6-XX-12F	3.6 m (12 ft)	1 ea
UNC6-XX-15F	4.6 m (15 ft)	1 ea
UNC6-XX-20F	6 m (20 ft)	1 ea
UNC6-XX-25F	7.62 m (25 ft)	1 ea
UNC6-XX-50F	15.2 m (50 ft)	1 ea

Color Codes for XX

Product	Color
GY	Gray
WH	White
BL	Blue
GR	Green
YL	Yellow
VL	Violet
BK	Black
RD	Red
OR	Orange

Patch Cords

110 Patch Cords (Category 6)

UNC6 patch cords offer easy reconfiguration of 110 wiring blocks while delivering Category 6 performance. These 4-pair cords are engineered for minimized signal reflection and optimum overall performance. The product offering includes both (110 to 110) and (110 to RJ45) plug ends.

Applications:

EIA/TIA Category 6 terminals
EIA/TIA Category 5e terminals

Meets/exceeds:

Cat 6 requirements for patch cords of ISO/IEC 11801 (2002), EN50173-1 (2002) AND EIA/TIA 568B.
UL Listed

Features:

Sure, high performance connections
Available in several lengths

UNC6-4P-110-GY-5F



UNC6-4P-110-RJ45-GY-10F



Specifications

Catalog Number	Length	Packaging	Color
UNC6-4P-110-GY-3F	0.91 m (3 ft)	1 ea	Gray
UNC6-4P-110-GY-5F	1.5 m (5 ft)	1 ea	Gray
UNC6-4P-110-GY-7F	2.1 m (7 ft)	1 ea	Gray
UNC6-4P-110-GY-9F	2.7 m (9 ft)	1 ea	Gray
UNC6-4P-110-GY-15F	4.6 m (15 ft)	1 ea	Gray
UNC6-4P-110-RJ45-GY-3F	0.91 m (3 ft)	1 ea	Gray
UNC6-4P-110-RJ45-GY-5F	1.5 m (5 ft)	1 ea	Gray
UNC6-4P-110-RJ45-GY-7F	2.1 m (7 ft)	1 ea	Gray
UNC6-4P-110-RJ45-GY-10F	3.0 m (10 ft)	1 ea	Gray
UNC6-4P-110-RJ45-GY-12F	3.7 m (12 ft)	1 ea	Gray
UNC6-4P-110-RJ45-GY-15F	4.6 m (15 ft)	1 ea	Gray
UNC6-4P-110-RJ45-GY-20F	6.1 m (20 ft)	1 ea	Gray

Twisted Pair Cable Description



UltraPipe® Category 6E Cable

Introduced in 2000, UltraPipe is the next evolution in unshielded twisted pair products. UltraPipe exceeds Category 6 specifications and provides superior bandwidth performance up to 550 MHz to support broadband video and high-speed, full duplex transmission protocols.

UltraMedia® Category 6e Cable

Introduced in 1998, UltraMedia is designed to exceed all Category 6 requirements for high-speed, full-duplex, parallel transmission protocols. The revolutionary patented Isolator™ maximizes pair separation and minimizes pair motion resulting in superior NEXT, ELFEXT, and RL performance to 400MHz. Typical applications include high-speed digital voice, video and data, such as 3D imaging, broadband video, gigabit Ethernet, and 155/622Mb/s ATM.

Media 6® Category 6 Cable

Introduced in 2002, the Media 6 rounds out CommScope's Category 6 U/UTP offering. With an Isolated cable construction featuring the patented Isolator, Media 6 supports broadband video and high speed, full-duplex transmission protocols that new and emerging technologies demand. Features include a flexible jacket, thousand to zero sequential footage markers, vibrant colored pairs with a co-extruded color stripe for easy identification, and a smaller OD than typical Category 6 products. All of these features, plus a reassurance of quality CommScope product for those who have value in mind.

Ultra II® Category 5e "PLUS" Cable

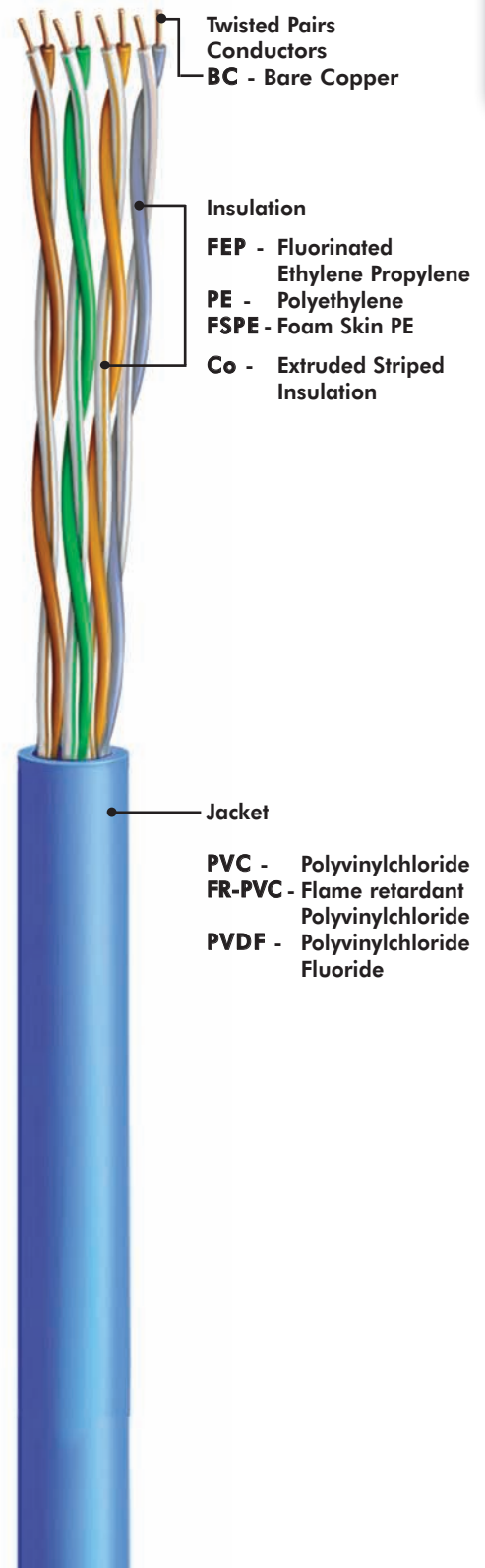
First released in 1996, the Ultra II family was designed with the future in mind. A 350MHz Enhanced Category 5e U/UTP cable that provides guaranteed "head-room" over today's current 5e standards. Ultra II incorporated superior isolation and return loss with low insertion loss, <15ns in Delay Skew, and ISO/IEC 11801 input impedance compliant.

DataPipe® Category 5e Cable

Often referred to as addendum 5, Category 5e was developed for simultaneous bi-directional transmission over 4-pairs. Improvements to Category 5 were made and additional electrical requirements such as power sum NEXT, equal level far-end crosstalk, power sum equal level far-end crosstalk, and return loss were added to create the 5e specification. Typical applications include those of Category 5 and full duplex encoding schemes such as gigabit Ethernet (1000 Base T).

Category 3 Cable

Category 3 is designed for LAN applications with bandwidth requirements up to 16 MHz. It is most commonly used for voice and data rates up to 10 Mbps. Typical applications include 10 Base-T Ethernet and 4 Mbps Token Ring™ systems. Category 3 cables comply with and are verified to TIA/EIA 568B.1.



Certification of Quality and Performance

Proof of Performance Comes with Every Reel of UltraPipe, UltraMedia, Ultra II & DataPipe

Certified Test Reports



Quality is just a word until it is proven. This is why CommScope backs its claims for the performance of its enhanced twisted pair products by testing each master reel.

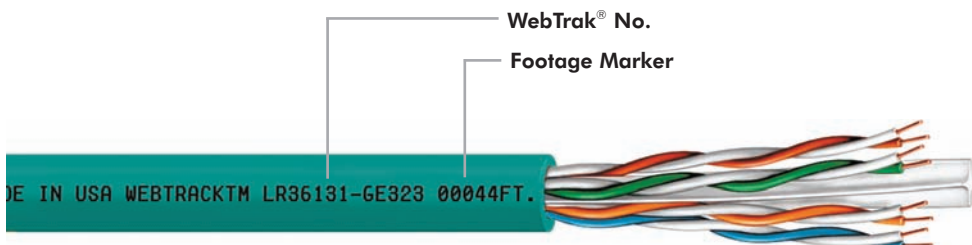
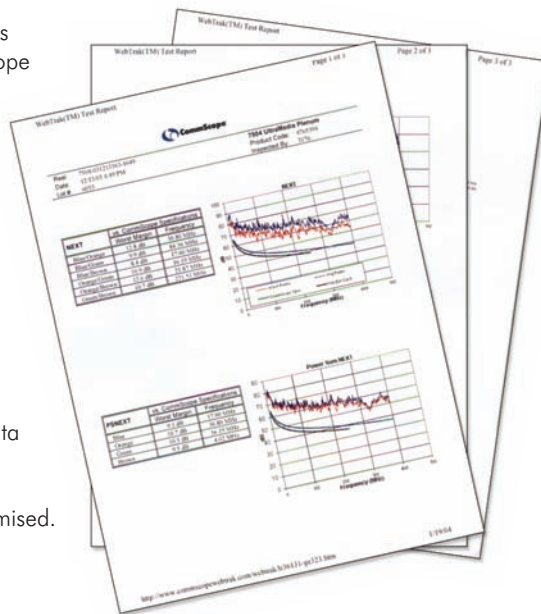
Test reports are available for UltraPipe, UltraMedia, Media 6, Ultra II and DataPipe via our WebTrak® system. (Not available on outdoor cables or multi-leg and pair counts higher than 4.)

These cables undergo frequency sweep tests for insertion loss, crosstalk and return loss. These values are recorded and logged to our WebTrak® system.

Each report shows the TIA spec, CommScope spec, average and worst case data for the NEXT, PSNEXT, Return Loss, Insertion Loss (attenuation) and ACR.

This report is your assurance that the cable you've paid for will perform as promised.

WebTrak®: Your access to online data for the cable you install.
www.commscopewebtrak.com



1,000' - 0' Footage Markers

To reduce scrap and simplify traceability and termination, CommScope prints 1000 to 0 footage markings on the outer jacket of all twisted pair cables. This is just another feature that CommScope offers to simplify the installation process. (Not available on outdoor cables or multi-leg and pair counts higher than 4.)



REGISTERED ISO 9001:2000

ISO certification is another proof of CommScope's commitment to manufacturing excellence in all aspects of our operations. Our promise is to design, manufacture and deliver products and services which conform to specifications and satisfy your requirements and expectations in every way.

Highest Performance U/UTP Cable Available with improved:

- Attenuation
- Crosstalk
- Return Loss

UltraPipe exceeds all Category 6 specifications and provides superior bandwidth performance up to 550Mhz to support broadband video and high-speed, full-duplex transmission protocols.

UltraPipe offers a 60% improvement in signal strength by providing a 2db improvement in attenuation over proposed Category 6 cable. UltraPipe also offers a 300% improvement in PowerSum crosstalk performance, critical for Gigabit Ethernet networks. UltraPipe has a 25% improvement in return loss over proposed Category 6, maximizing cable balance and minimizing echo to improve overall channel performance.

CommScope proves this performance by individually testing every master reel of UltraPipe cable. In March, 2003, we began posting the test reports online. Our unique WebTrak® system allows you to review this data online at www.commscopewebtrak.com

UltraPipe's patented design includes the revolutionary Isolator™ pair separator, which resolves NEXT and ELFEXT issues required for accurate transmission using all four pairs.

UltraPipe is an excellent Choice for Critical Network Applications.**Electrical Performance of UltraPipe**

Frequency MHz UltraPipe	ATTENUATION (dB/100m)		NEAR END CROSSTALK (dB)		ACR (dB/100m) Min UltraPipe	POWER SUM (dB)			ELFEXT (dB/100m) Min	Return Loss (dB)	
	CommScope Max	EIA/TIA 568 Category 6	CommScope Min UltraPipe	EIA/TIA 568 Category 6		NEXT Min UltraPipe	ELFEXT Min UltraPipe	ACR Min UltraPipe		CS Min	EIA/TIA 568 Category 6
1.0	2.0	2.0	81.3	74.3	79.3	78.3	70.8	76.3	74.8	20.0	20.0
4.0	3.7	3.8	72.3	65.3	68.6	69.3	58.8	65.5	62.8	23.6	23.0
8.0	5.2	5.3	67.8	60.8	62.6	64.8	52.7	57.5	56.7	25.4	24.5
10.0	5.8	6.0	66.3	59.3	60.5	63.3	50.8	57.4	54.8	26.0	25.0
16.0	7.3	7.6	63.2	56.2	55.9	60.3	46.7	52.8	50.7	26.0	25.0
20.0	8.2	8.5	61.8	54.8	53.6	58.8	44.8	50.5	48.8	26.0	25.0
25.0	9.2	9.5	60.3	53.3	51.2	57.3	42.8	48.0	46.8	25.3	24.3
31.25	10.3	10.7	58.9	51.9	48.6	55.9	40.9	45.4	44.9	24.6	23.6
62.5	14.8	15.4	54.4	47.4	39.6	51.4	34.9	36.5	38.9	22.5	21.5
100.0	19.0	19.8	51.3	44.3	32.3	48.3	30.8	29.3	34.8	21.1	20.1
155.0	24.1	25.2	48.4	41.4	24.4	45.5	27.0	21.5	31.0	19.8	18.8
200.0	27.7	29.0	46.8	39.8	19.1	43.8	24.8	16.4	28.8	19.0	18.0
250.0	31.3	32.8	45.3	38.3	14.0	42.3	22.8	11.5	26.8	18.3	17.3
350.0	37.8		43.1		5.3	40.2	19.9	3.2	23.9	17.3	
400.0	40.8		42.3		1.5	39.3	18.8		22.8	16.9	
550.0	49.0		40.2			37.2	16.0		20.0	15.9	




UltraPipe® (Category 6E 550MHz)**Extended Bandwidth High Performance U/UTP Category 6E Cable**

Applications: Broadband Video, Gigabit Ethernet, 155 Mb/s ATM, 100 Mb/s TP-PMD/CDDI and Fast Ethernet
Exceeds: ANSI/TIA-568-B.2-1 Category 6, CENELEC EN50173, ICEA S-90-661, NEMA WC 66-1999 Category 6, NEMA Low-loss Extended Frequency, AS/NZS 3085.1, ISO/IEC 11801 Class E and TIA/EIA PN-4657




Features: Third party verified to CommScope performance claims
 Patented design with Isolator™ pair separator for superior crosstalk performance
 Rugged design allows higher max pulling tensions
 Flexible jacket strips cleanly and resists kinking
 Coextruded color striped pairs for easy identification
 1,000 to 0 footage markers every two feet
 Larger gauge copper for low signal loss

Test Report: Test report available online at www.commscopewebtrak.com.

Plenum

Catalog Number Safety Rating Packaging Options	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Jacket OD and colors in / mm.	Nominal Capacitance Pf/Ft	Input Impedance	Maximum DCR	Velocity of Propagation	Shipping Wt. in lbs. kft / km
6ECMP  ETL CMP/C(ETL) CMP  	4	23 AWG Solid BC	FEP .008/.20	CommFlex .019/.48	.250/6.3 teal, white, blue, yellow, and gray	14 15%	100Ω 6.7Ω/100m	20.3Ω/kft	71%	35.0/114.8

Non-plenum

Catalog Number Safety Rating Packaging Options	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Jacket OD and colors in / mm.	Nominal Capacitance Pf/Ft	Input Impedance	Maximum DCR	Velocity of Propagation	Shipping Wt. in lbs. kft / km
6ECMR  ETL CMR/C(ETL) CMG  	4	23 AWG Solid BC	PE .008/.20	Flame- retardant PVC .024/.61	.240/6.0 teal, pink, white, blue yellow and gray	14	100Ω ± 15%	20.3Ω/kft 6.7Ω/100m	68%	30.0/98.4

Available in CMX for International use.

 = Reel  = Reel-In-Box

Custom lengths of 2,000, 3,000 and 6,000 feet are available on reels for all twisted pair products. See Packaging Matrix for minimum order requirements and details.

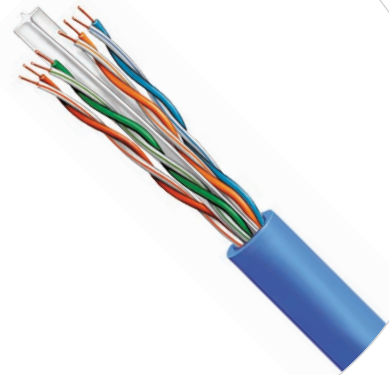
UltraMedia®



CommScope's UltraMedia is the enhanced bandwidth cable that defines a new standard in U/UTP performance. UltraMedia's improved 400 MHz capability, unmatched ACR, PowerSum NEXT and precision balance make UltraMedia one of the best-performing Category 6e U/UTP cables available.

Engineered specifically for high-speed, full-duplex, parallel transmission protocols that dominate new technologies, UltraMedia's patented design, which includes the revolutionary Isolator™ pair separator, resolves ELFEXT and balance issues required for accurate transmission using all four pairs. Exceeding both ANSI/TIA/EIA 568B.2-1 and ISO/IEC 11801 standards, UltraMedia is an excellent choice for critical network applications.

CommScope proves this performance by individually testing every master reel of UltraMedia cable. In March, 2003, we began posting the test reports online. Our unique WebTrak® system allows you to review this data online at www.commscopewebtrak.com



Parameter	UltraMedia Performance	% Improvement vs. Standard
Specified Frequency	400 Mhz	60% improvement
Maximum Skew	≤25 ns	300% improvement
PSUM ELFEXT & ELFEXT	1 dB vs. std. Category 6	25% improvement
Capacitance Unbalance	58.2 pF max @ 23°C	500% improvement
PSUM NEXT & NEXT	3 dB vs. std. Category 6	100% improvement

Electrical Performance of UltraMedia vs. ANSI/TIA/EIA Category 6

Frequency MHz	ATTENUATION (dB/100m)		NEAR END CROSSTALK (dB)		ACR (dB/100m) Min/Avg	POWER SUM (dB)			ELFEXT (dB/100m) Min	Return Loss (dB)	
	CommScope Max	EIA/TIA 568 Category 6	CommScope Min/Avg	EIA/TIA 568 Category 6		NEXT Min	ELFEXT Min	ACR Min		CS Min	EIA/TIA 568 Category 6
1.0	2.0	2.0	77.3/90	74.3	75.3/85	75.3	65.8	73.3	68.8	20.0	20.0
4.0	3.8	3.8	68.3/83	65.3	64.5/80	66.3	53.7	62.5	56.8	23.6	23.0
8.0	5.3	5.3	63.8/79	60.8	58.5/74	61.8	47.7	56.5	50.7	25.4	24.5
10.0	5.9	6.0	62.3/75	59.3	56.4/70	60.3	45.8	54.4	48.8	26.0	25.0
16.0	7.5	7.6	59.2/72	56.2	51.7/65	57.2	41.7	49.7	44.7	26.0	25.0
20.0	8.4	8.5	57.8/72	54.8	49.4/64	55.8	39.7	47.4	42.8	26.0	25.0
25.0	9.4	9.5	56.3/69	53.3	46.9/60	54.3	37.8	44.9	40.8	25.3	24.3
31.25	10.6	10.7	54.9/68	51.9	44.3/59	52.9	35.9	42.3	38.9	24.6	23.6
62.5	15.3	15.4	50.4/65	47.4	35.1/51	48.4	29.8	33.1	32.9	22.5	21.5
100.0	19.7	19.8	47.3/62	44.3	27.6/44	45.3	25.8	25.6	28.8	21.1	20.1
155.0	25.0	25.2	44.4/62	41.4	19.5/38	42.4	21.9	17.5	25.0	19.8	18.8
200.0	28.8	29.0	42.8/61	39.8	14.0/33	40.8	19.7	12.0	22.8	19.0	18.0
250.0	32.6	32.8	41.3/60	38.3	8.7/30	39.3	17.8	6.7	20.8	18.3	17.3
350.0	39.5		39.1/52		-0.4/20	37.1	14.9	-2.4	17.9	17.3	
400.0	42.7		38.3/52		-4.4/14	36.3	13.7	-6.4	16.8	16.9	

UltraMedia® (Category 6E 400 MHz)**Enhanced Bandwidth for High-Speed Voice/Video/Data Applications**





Applications: Broadband Video, Gigabit Ethernet, 155 Mb/s ATM, 100 Mb/s TP-PMD/CDDI and Fast Ethernet

Exceeds/meets: CENELEC EN50173, ICEA S-90-661, ANSI/TIA/EIA 568-B.2-1 Category 6, NEMA WC 66-1999 Category 6, NEMA Low-loss Extended Frequency, AS/NZS 3085.1 and ISO/IEC 11801 Class E 3rd Party Verified to CommScope Performance Claims





Features: Patented design with Isolator™ pair separator for superior bandwidth performance
 PSUM crosstalk compliant
 Flexible jacket strips cleanly and resists kinking
 Coextruded color striped pairs for easy identification
 1,000 to 0 footage markers every two feet

Test Report: Test report available online at www.commscopewebtrak.com.

Plenum

Catalog Number Safety Rating Packaging Options	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Jacket OD and colors in / mm.	Nominal Capacitance pF/ft	Input Impedance	Maximum DCR	Velocity of Propagation	Shipping Wt. in lbs. kft / km
7504  ETL CMP/C(ETL) CMP	4	23 AWG Solid BC	3prs: FEP .008/.20 1pr: FSPE .008/.20	CommFlex .019/.38	.220/5.6 teal, pink white, blue yellow and gray	14	100Ω ± 15%	20.3Ω/kft 6.7Ω/100m	71%	28/92
	  									

Non-plenum

Catalog Number Safety Rating Packaging Options	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Jacket OD and colors in / mm.	Nominal Capacitance pF/ft	Input Impedance	Maximum DCR	Velocity of Propagation	Shipping Wt. in lbs. kft / km
75N4  ETLCMR/C(ETL) CMG	4	23 AWG Solid BC	PE .008/.20	Flame- retardant PVC .022/.6	.230/6.1 teal, pink white, blue yellow and gray	14	100Ω ± 15%	20.3Ω/kft 6.7Ω/100m	68%	26/85
	  									

Available in "CM" and "CMX" for International Use.

 = Reel  = Reel-In-Box  = ComPak

Custom lengths of 2,000, 3,000 and 6,000 feet are available on reels for all twisted pair products. See Packaging Matrix for minimum order requirements and details.

Media 6[®]



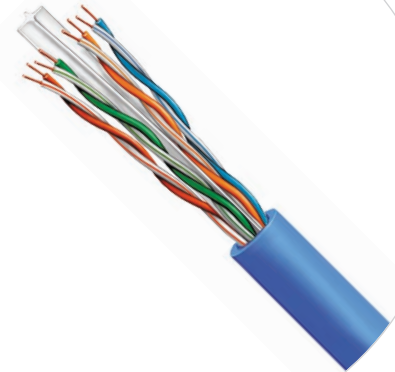
Media 6 rounds out CommScope's family of Category 6 U/UTP products. Media 6 also includes the revolutionary Isolator™ pair separator. Media 6 exceeds all Category 6 specifications to support broadband video and high speed, full-duplex transmission protocols that dominate new technologies. Features include a flexible jacket, thousand to zero footage markers, vibrant colored pairs with a co-extruded color stripe on the white common for easy identification, and a smaller OD than typical Category 6 products.

Media 6 is available in:

3 colors (white, blue, gray)
Reel-In-Box and Reel

Meets Standards

ANSI/TIA/EIA-568-B.2-1 Category 6
ISO/IEC 11801 Class E
NEMA WC 63/66
ANSI/ICEA S-90-661
Plenum: ETL Type CMP, C(ETL) CMP
Riser: ETL Type CMR, C(ETL) CMG



Electrical Performance of Media 6

Frequency MHz	Attenuation (dB/100m)	Near End Cross Talk (dB)	ACR (dB/100m) Min	Power Sum (dB)			ELFEXT (dB/100m) Min	Return Loss (dB)	
				NEXT Min	ELFEXT Min	ACR Min		CommScope Min	EIA/TIA 568 Category 6
1.0	2.0	74.3	72.3	72.3	64.8	70.3	67.8	23.0	20.0
4.0	3.8	65.3	61.5	63.3	52.8	59.5	55.8	23.0	23.0
8.0	5.3	60.8	55.4	58.8	46.7	53.4	49.7	24.5	24.5
10.0	6.0	59.3	53.3	57.3	44.8	51.3	47.8	25.0	25.0
16.0	7.6	56.2	48.7	54.2	40.7	46.7	43.7	25.0	25.0
20.0	8.5	54.8	46.3	52.8	38.8	44.3	41.8	25.0	25.0
25.0	9.5	53.3	43.8	51.3	36.8	41.8	39.8	24.3	24.3
31.25	10.7	51.9	41.2	49.9	34.9	39.2	37.9	23.6	23.6
62.5	15.4	47.4	32.0	45.4	28.9	30.0	31.9	23.0	21.5
100.0	19.8	44.3	24.5	42.3	24.8	22.5	27.8	23.0	20.1
155.0	25.2	41.4	16.2	39.4	21.0	14.2	24.0	21.0	18.8
200.0	29.0	39.8	10.7	37.8	18.8	8.7	21.8	21.0	18.0
250.0	32.8	38.3	5.4	36.3	16.8	3.4	19.8	20.0	17.3

(All tests include swept frequency measurements.)

Media 6* (Category 6 250 MHz)**Bandwidth for High-Speed Voice/Video/Data Applications**


Applications: Broadband Video, Gigabit Ethernet, 155 Mb/s ATM, 100 Mb/s TP-PMD/CDDI and Fast Ethernet

Exceeds/meets: ANSI/TIA/EIA 568-B.2-1 Category 6, NEMA WC 63/66, ANSI/ICEA S-90-661, ISO/IEC 11801 Class E


Features: Flexible jacket strips cleanly and resists kinking
Coextruded color striped pairs for easy identification
1,000 to 0 footage markers every two feet (Not available for outdoor cables or multi-leg & pair counts higher than 4)

Test Report: Test report available online at www.commscopewebtrak.com.
(Not available for outdoor cables or multi-leg & pair counts higher than 4)


Plenum

Catalog Number Safety Rating Packaging Options	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Jacket OD and colors in / mm.	Nominal Capacitance pF/ft	Input Impedance	Maximum DCR	Velocity of Propagation	Shipping Wt. in lbs. kft / km
6504+  ETL CMP/C(ETL) CMP	4	23 AWG Solid BC	3 prs:FEP .008/.20 1 pr: FSPE .008/.20	CommFlex .019/0.48	.220/5.6 white, blue and gray	14	100Ω ± 15%	20.3Ω/kft 6.7Ω/100m	69%	27/88


Non-Plenum

Catalog Number Safety Rating Packaging Options	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Jacket OD and colors in / mm.	Nominal Capacitance pF/ft	Input Impedance	Maximum DCR	Velocity of Propagation	Shipping Wt. in lbs. kft / km
65N4+  ETL CMR/C(ETL) CMG	4	23 AWG Solid BC	PE .008/.20	Flame- retardant PVC .022/0.6	.230/6.1 white, blue and gray	14	100Ω ± 15%	20.3Ω/kft 6.7Ω/100m	68%	25/82


Outdoor

Catalog Number Safety Rating Packaging Options	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Jacket OD and colors in / mm.	Nominal Capacitance pF/ft	Input Impedance	Maximum DCR	Velocity of Propagation	Shipping Wt. in lbs. kft / km
6NF4+  1000	4	23 AWG Solid BC	PE .010/.25	PE with Floodant .022/0.6	.250/6.3 Black	15	100Ω + 15%	28.6Ω/kft 9.4Ω/100m	62%	28.0/91.8

Screened Plenum

Catalog Number Safety Rating Packaging Options	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Jacket OD and colors in / mm.	Nominal Capacitance pF/ft	Input Impedance	Maximum DCR	Velocity of Propagation	Shipping Wt. in lbs. kft / km
65S4+  ETL CMP/C(ETL) CMP	4	23 AWG Solid BC	FEP .010/.25	PVC .018/0.46	.268/6.8 white	14	100Ω ± 15%	20.3Ω/kft 6.7Ω/100m	71%	38.0/124.6

Screened Non-Plenum

Catalog Number Safety Rating Packaging Options	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Jacket OD and colors in / mm.	Nominal Capacitance pF/ft	Input Impedance	Maximum DCR	Velocity of Propagation	Shipping Wt. in lbs. kft / km
65NS4+  ETL CMR/C(ETL) CMG	4	23.5 AWG Solid BC	PE .010/.25	PVC .020/0.51	.270/6.9 gray	14	100Ω ± 15%	20.3Ω/kft 6.7Ω/100m	71%	28/85

1000 = Reel  = Reel-In-Box  = ComPak

Custom lengths of 2,000, 3,000 and 6,000 feet are available on reels for all twisted pair products.
See Packaging Matrix for minimum order requirements and details.

C O P P E R S O L U T I O N S

Category 6A

Category 6

Category 5e

ReadyPATCH™ Cu Solution

Voice Grade Systems

Modular Patch Panels

Cable Management

110 Solutions

Mixed-Use Network Solutions

Foiled Twisted Pair Solutions

Tools

Category 5e

Panels	36
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Patch Panels

UNP510 Patch Panels

The UNP510 panels are available in 18, 24 and 48 port versions and are designed to mount into standard 19-inch racks and cabinets. The panel back consists of craft friendly color-coded gas-tight insulation displacement connections. Design features include termination options for either T568A or T568B wiring schemes.

The UNP510 patch panels include integrated label holders with clear label covers and white paper labels. Label holders accept UNJ icons in a wide array of colors and icons can be installed over each individual port. A rear cable management bar can be quickly mounted directly onto the rear of the panels without any hardware. The bar can be installed from the rear of the frame or attached to the panels prior to being mounted. The 18-port version includes (1) cable management/strain relief bar, the 24-port version includes (1) cable management/strain relief bar, and the 48-port comes with (2).

Applications:

- Telecommunications rooms, equipment rooms, main cross-connects, intermediate cross-connects, data centers

Meets/exceeds:

- Category 5e requirements of ISO/IEC 11801, CENELEC EN50173-1 AND TIA/EIA 568B.2-1
- UL® Listed

Specifications

Physical Specifications	
Insertion Life:	750 cycles min.
Wire Insertion Force:	24 AWG = 13-28lbs. (58-125N)
Flammability Rating:	UL-rated 94V-0
Insulation Resistance:	500 megaohms minimum
Current Rating:	1.5A at 68°F (20°C)
Dielectric Withstand Voltage:	1000 VAC RMS, 60Hz minimum, contact-to-contact and 1500 VAC RMS, 60Hz minimum to exposed conductive surface
Listing:	UL and cUL Listed



Easy to mount rear cable management bar - provided with each panel.

UNP510-48P



UNP510-24P



UNP510-18P



Catalog Number	Description	Packaging
UNP510-18P	Category 5e 18 Port Patch Panel, 1.75" (4.45cm) H x 19.0" (48.3cm) W x 1.725" (4.38cm) D	1/Pkg
UNP510-24P	Category 5e 24 Port Patch Panel, 1.75" (4.45cm) H x 19.0" (48.3cm) W x 1.725" (4.38cm) D	1/Pkg
UNP510-48P	Category 5e 48 Port Patch Panel, 3.5" (4.45cm) H x 19.0" (48.3cm) W x 1.725" (4.38cm) D	1/Pkg

Patch Panels

12 Port Wall-Mount Patch Panel

The Uniprise 12 Port Wall-Mount Patch Panel (UNP510-WM-12P) is designed for wall-mount applications and for quick and repeatable configuration of Category 5e circuits. The panel back consists of gas-tight insulation displacement connections for secure termination. Craft-friendly design features include terminations for either T568A or T568B wiring schemes. These panels now include integrated label holders with clear label covers and white paper labels. Label holders accept UNJ icons in a wide array of colors and icons can be installed over each individual port.

Applications:

- For use anywhere patching requirements are limited and must be wall-mounted

Meets/exceeds:

- Category 5e requirements of ISO/IEC11801, CENELEC EN 50173-1 and TIA/EIA-568-B.2.1
- UL® Listed

Features:

- Panels snap into wall-mount bracket (incl.) and can be easily removed
- Panel can be held by the wall-mount bracket during termination
- Ports numbered on the front of the panel
- Color-coded rear labels included for 568A and 568B wiring

Specifications

Physical Specifications	
Insertion Life:	750 cycles min.
Min. Contact Force:	100 g min (3.5 oz).
Min. Plug Retention Force:	133 N min.
Operating Temperature Range:	-10 to 60°C
Storage Temperature Range:	-40 to 66°C
Humidity:	5 to 95% (noncondensing)
Height:	25.4 cm (10 in)
Width:	8.13 cm (3.2 in)
Depth:	5.08 cm (2 in)

UNP510-WM-12P



Wall-Mount Patch Panel

Catalog Number	Description
UNP510-WM-12P	Category 5e Patch Panel for wall-mount applications

Patch Panels

Angled Patch Panels

Uniprise Angled Panels are designed for quick and repeatable configuration of Category 5e circuits. The panel back consists of gas-tight insulation displacement connections for secure termination.

The UNP510 patch panels include integrated label holders with clear label covers and white paper labels. Label holders accept UNJ icons in a wide array of colors and icons can be installed over each individual port. A rear cable management bar can be quickly mounted directly onto the rear of the panels without any hardware. The bar can be installed from the rear of the frame or attached to the panels prior to being mounted. The 24-port version includes (1) cable management/strain relief bar, while the 48-port comes with (2). Insertion life exceeds 750 cycles. Angled panels allow the routing of patch cords directly to the vertical cable management, eliminating the need for horizontal patchcord organizers.

Uniprise Angled Panels are available in 24 and 48-port versions.

Applications:

- For use in Telecommunications room, equipment rooms and data centers for main, intermediate and horizontal connections

Meets/exceeds:

- Category 5e requirements of ISO/IEC11801, CENELEC EN 50173-1 and TIA/EIA-568-B.2 and TIA/EIA-568-B.2.1
- UL® Listed

Specifications

Physical Specifications	
Insertion Life:	750 cycles min.
Min. Contact Force:	100 g min (3.5 oz).
Min. Plug Retention Force:	133 N min.
Operating Temperature Range:	-10 to 60°C
Storage Temperature Range:	-40 to 70°C
Humidity:	5 to 95% (noncondensing)
Height: 24-Ports:	4.38 cm (1 μ)
48-Ports:	8.83 cm (2 μ)
Width:	48.26 cm (19 in)
Depth:	8.6 cm (3.38 in)

Angled Panels

Catalog Number	Description	Ports	Packaging
UNP510-ANG-24P	Category 5e	24-port	1/Pkg
UNP510-ANG-48P	Category 5e	48-port	1/Pkg



UNP510-ANG-24P



UNP510-ANG-48P



UNP510-ANG-48P (BACK)

Information Outlets

Category 5e Outlets

UNJ500 Category 5e Outlets deliver optimum performance. Design features include high-tooth pair splitters that help separate and maintain pair twists up to the termination. From 22 to 24 AWG (0.643 mm – 0.511 mm) wires are accepted in the insulation displacement connection. Jack and outlet contacts are gold/nickel-plated copper alloy for outstanding signal transmission.

The versatile design of the outlet allows installation in Modular Flush Mount Faceplates at either 90° or 45°. Wire caps and icons are included. A universal colored wiring label shows both T568A and T568B schemes.

- Wide channel for enhanced conductor placement and termination.
- Snap-on icons provided in strips of three: DATA, VOICE and BLANK, and are also sold separately in bulk packs of 25.

Impact tool or wire cap can be used to terminate the wire conductor.

UNJ500 Category 5e outlets meet applicable safety standards and are available in 11 colors. UNJ500 outlets are required for Category 5e performance and are also compatible with standard RJ45 plugs.

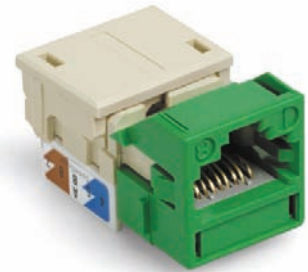
Applications:

- Work areas

Meets/exceeds:

- Category 5e requirements of ISO/IEC 11801, CENELEC EN50173-1 AND TIA/EIA 568B.2-1
- UL® Listed

UNJ500-GR with cap



Specifications

Physical Specifications	
Width:	0.787 in (2 cm)
Length:	0.787 in (2 cm)
Depth:	1.22 in (3.1 cm)
Plastic:	High-impact, flame retardant, UL-rated 94 V-0 thermoplastic
Insertion Life:	> 750 insertions of an IEC 8 position plug
Min. Contact Force:	100 g
Min. Plug Retention Force:	133 N
Operating Temperature Range:	14 to 140.0°F (- 10 to 60°C)

Electrical Specifications	
TIA/EIA Category:	5e
Min. Insulation Resistance:	500M Ω
Min. Dielectric Withstand Voltage (Contact to contact @ 60 Hz):	1000 VAC RMS
Min. Dielectric Withstand Voltage (To exposed conductive surface @ 60 Hz):	1500 VAC RMS
Max. Contact Resistance:	20 m Ω
Current Rating @ 20°C:	1.5 A

Information Outlets

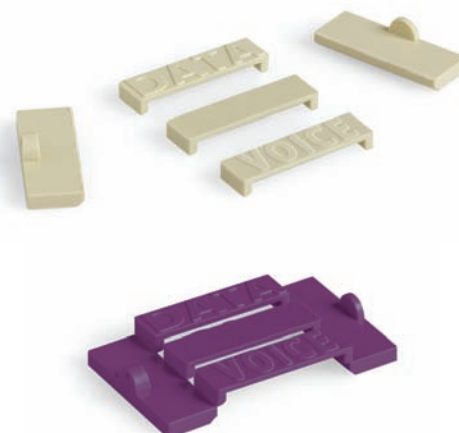
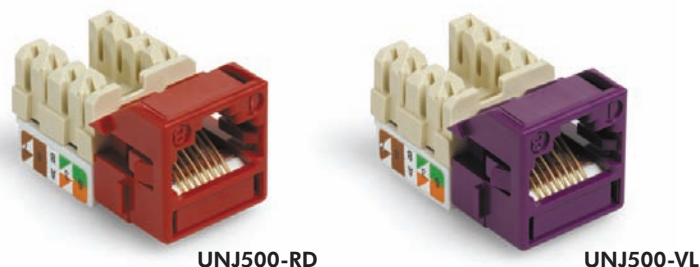
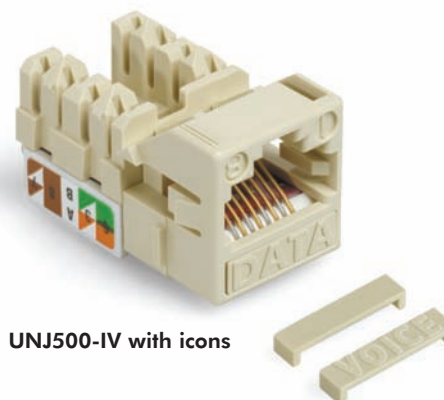
Category 5e Outlets

Category 5e Information Outlets

Catalog Number	Packaging	Color
UNJ500-BL	1/Pkg	Blue
UNJ500-OR	1/Pkg	Orange
UNJ500-GR	1/Pkg	Green
UNJ500-GY	1/Pkg	Gray
UNJ500-WH	1/Pkg	White
UNJ500-RD	1/Pkg	Red
UNJ500-BK	1/Pkg	Black
UNJ500-YL	1/Pkg	Yellow
UNJ500-IV	1/Pkg	Ivory
UNJ500-VL	1/Pkg	Violet
UNJ500-CM	1/Pkg	Cream
Bulk		
UNJ500-BL-100PK	100/Pkg	Blue
UNJ500-OR-100PK	100/Pkg	Orange
UNJ500-GR-100PK	100/Pkg	Green
UNJ500-GY-100PK	100/Pkg	Gray
UNJ500-WH-100PK	100/Pkg	White
UNJ500-RD-100PK	100/Pkg	Red
UNJ500-BK-100PK	100/Pkg	Black
UNJ500-YL-100PK	100/Pkg	Yellow
UNJ500-IV-100PK	100/Pkg	Ivory
UNJ500-VL-100PK	100/Pkg	Violet
UNJ500-CM-100PK	100/Pkg	Cream

Bulk Icons

Catalog Number	Packaging	Color
UNJ-ICON-BL	25/Pkg	Blue
UNJ-ICON-OR	25/Pkg	Orange
UNJ-ICON-GR	25/Pkg	Green
UNJ-ICON-GY	25/Pkg	Gray
UNJ-ICON-WH	25/Pkg	White
UNJ-ICON-RD	25/Pkg	Red
UNJ-ICON-BK	25/Pkg	Black
UNJ-ICON-YL	25/Pkg	Yellow
UNJ-ICON-IV	25/Pkg	Ivory
UNJ-ICON-VL	25/Pkg	Violet
UNJ-ICON-CM	25/Pkg	Cream



Patch Cords

Category 5e

The UNC5 Patch Cord is available in a wide variety of lengths and colors. These cords utilize stranded cordage, along with a slim integrated boot design.

This equipment cord provides high performance with lower variability. It supports Ultrall and DataPipe solutions Category 5e solutions.

Applications:

- Patch and equipment cords

Meets/exceeds:

- Category 5e /Class D requirements of ISO/IEC IS11801, CENELEC EN50173 AND TIA/EIA 568B.2
- UL® Listed

Features:

- Narrow Boot/Strain Relief
 - Supports high density installations
 - Cord fits into narrow jack locations
 - Uniform appearance between the Cat 6 and Cat 5e patch cords
- High Performance
 - Maintains Uniprise channel performance
 - Strong component performance - supporting "open architecture"
 - Exceeds cordage requirements of TIA 568B-B.2 and ISO/IEC 11801
- Packaging Enhancements
 - Easy to open perforated edge
 - Hang tabs for retail display
 - Supports automated inventory management/UPC barcode included
- Available in 9 standard colors and 10 standard lengths



UNC5-GY-5F

Specifications

Catalog Number	Length	Packaging
UNC5-XX-1F	0.3 m (1 ft)	1 ea
UNC5-XX-3F	0.91 m (3 ft)	1 ea
UNC5-XX-5F	1.5 m (5 ft)	1 ea
UNC5-XX-7F	2.1 m (7 ft)	1 ea
UNC5-XX-10F	3 m (10 ft)	1 ea
UNC5-XX-12F	3.6 m (12 ft)	1 ea
UNC5-XX-15F	4.6 m (15 ft)	1 ea
UNC5-XX-20F	6 m (20 ft)	1 ea
UNC5-XX-25F	7.62 m (25 ft)	1 ea
UNC5-XX-50F	15.2 m (50 ft)	1 ea

Color Codes for XX

Product	Color
GY	Gray
WH	White
BL	Blue
GR	Green
YL	Yellow
VL	Violet
BK	Black
RD	Red
OR	Orange

Patch Cords

110 Patch Cords (Category 5e)

UNC5 patch cords offer easy reconfiguration of 110 wiring blocks while delivering Category 5e performance. Stranded conductors are very flexible and the connector is designed to minimize crosstalk for superior NEXT performance. The product offering includes both (110 to 110) and (110 to RJ45) plug ends.

Applications:

EIA/TIA Category 5e terminals

Meets/exceeds:

Cat 5 requirements for attenuation and worst pair-to-pair NEXT for patch cords of ISO IEC 11801 (2002), EN50173 and TIA/EIA-568-B.2

UL Verified and Listed

Features:

Sure, high performance connections

Available in several pair configurations and lengths



UNC5-1P-110-GY-5F



UNC5-4P-110-GY-5F



UNC5-4P-110-RJ45-GY-5F

Specifications

Catalog Number	Length	Packaging	Color
UNC5-1P-110-GY-3F	0.91 m (3 ft)	1 ea	Gray
UNC5-1P-110-GY-5F	1.5 m (5 ft)	1 ea	Gray
UNC5-1P-110-GY-7F	2.1 m (7 ft)	1 ea	Gray
UNC5-1P-110-GY-12F	3.7 m (12 ft)	1 ea	Gray
UNC5-1P-110-GY-15F	4.6 m (15 ft)	1 ea	Gray
UNC5-2P-110-GY-3F	0.91 m (3 ft)	1 ea	Gray
UNC5-2P-110-GY-5F	1.5 m (5 ft)	1 ea	Gray
UNC5-2P-110-GY-7F	2.1 m (7 ft)	1 ea	Gray
UNC5-2P-110-GY-10F	3.0 m (10 ft)	1 ea	Gray
UNC5-2P-110-GY-12F	3.7 m (12 ft)	1 ea	Gray
UNC5-2P-110-GY-15F	4.6 m (15 ft)	1 ea	Gray
UNC5-2P-110-GY-20F	6.1 m (20 ft)	1 ea	Gray
UNC5-4P-110-GY-3F	0.91 m (3 ft)	1 ea	Gray
UNC5-4P-110-GY-5F	1.5 m (5 ft)	1 ea	Gray
UNC5-4P-110-GY-7F	2.1 m (7 ft)	1 ea	Gray
UNC5-4P-110-GY-10F	3.0 m (10 ft)	1 ea	Gray
UNC5-4P-110-GY-12F	3.7 m (12 ft)	1 ea	Gray
UNC5-4P-110-GY-15F	4.6 m (15 ft)	1 ea	Gray
UNC5-4P-110-GY-20F	6.1 m (20 ft)	1 ea	Gray

Catalog Number	Length	Packaging	Color
UNC5-1P-110-RJ45-GY-3F	0.91 m (3 ft)	1 ea	Gray
UNC5-1P-110-RJ45-GY-5F	1.5 m (5 ft)	1 ea	Gray
UNC5-1P-110-RJ45-GY-7F	2.1 m (7 ft)	1 ea	Gray
UNC5-1P-110-RJ45-GY-10F	3.0 m (10 ft)	1 ea	Gray
UNC5-1P-110-RJ45-GY-12F	3.7 m (12 ft)	1 ea	Gray
UNC5-1P-110-RJ45-GY-15F	4.6 m (15 ft)	1 ea	Gray
UNC5-1P-110-RJ45-GY-20F	6.1 m (20 ft)	1 ea	Gray
UNC5-2P-110-RJ45-GY-3F	0.91 m (3 ft)	1 ea	Gray
UNC5-2P-110-RJ45-GY-5F	1.5 m (5 ft)	1 ea	Gray
UNC5-2P-110-RJ45-GY-7F	2.1 m (7 ft)	1 ea	Gray
UNC5-2P-110-RJ45-GY-10F	3.0 m (10 ft)	1 ea	Gray
UNC5-2P-110-RJ45-GY-12F	3.7 m (12 ft)	1 ea	Gray
UNC5-2P-110-RJ45-GY-15F	4.6 m (15 ft)	1 ea	Gray
UNC5-2P-110-RJ45-GY-20F	6.1 m (20 ft)	1 ea	Gray
UNC5-4P-110-RJ45-GY-3F	0.91 m (3 ft)	1 ea	Gray
UNC5-4P-110-RJ45-GY-5F	1.5 m (5 ft)	1 ea	Gray
UNC5-4P-110-RJ45-GY-7F	2.1 m (7 ft)	1 ea	Gray
UNC5-4P-110-RJ45-GY-10F	3.0 m (10 ft)	1 ea	Gray
UNC5-4P-110-RJ45-GY-12F	3.7 m (12 ft)	1 ea	Gray
UNC5-4P-110-RJ45-GY-15F	4.6 m (15 ft)	1 ea	Gray
UNC5-4P-110-RJ45-GY-20F	6.1 m (20 ft)	1 ea	Gray

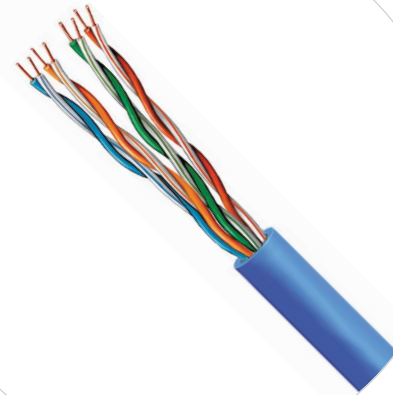
Ultra II®



CommScope's Ultra II is the 350MHz Enhanced Category 5e U/UTP cable that provides guaranteed "headroom" over the ANSI/EIA/TIA 568B.2 specification. Ultra II incorporates PowerSum NEXT, superior ACR performance, and 15 ns Delay Skew to deliver the needed performance for the demands of high speed, full duplex data networks.

CommScope proves this performance by individually testing every master reel of Ultra II cable. In March, 2003, we began posting the test reports online. Our unique WebTrak® system allows you to review this data online at www.commscopewebtrak.com

While electrical performance is critical, we believe the physical properties of the cable are also important. Ultra II utilizes CommFlex™ jacketing to improve pulling, handling and stripping. Coextruded stripes simplify traceability and termination. 1000 to 0 footage markings help the installer eliminate waste. In addition, its industry accepted round design does not require special connectors or additional labor. Easier installations = lower costs.



Parameter	Ultra II Performance vs. Category 5e	% Improvement vs. Standard
Specified Frequency	350 Mhz	250% improvement
ACR/pair-to-pair	>5.6dB @ 200 MHz >19.3dB @ 100 MHz	6dB or 200% improvement
ACR/PowerSum	0dB @ 243 MHz	0dB @ 165MHz or 30% improvement
Maximum Skew	≤15 ns	300% improvement
PSUM ELFEXT	+ 5dB	
ELFEXT	+ 4dB	
Capacitance Unbalance	58.5 pF max @ 23°C	500% improvement
NEXT & PSUM NEXT	+ 5dB	

Electrical Performance of Ultra II vs ANSI/TIA/EIA 568

Frequency MHz	Attenuation max/ave dB	Near End Crosstalk (NEXT) min/ave dB	Attenuation to Crosstalk (ACR)			PowerSum NEXT min/ave dB	PowerSum ACR min/ave dB	ELFEXT min dB	PowerSum ELFEXT dB	RL dB
			Ultra II min/ave dB	vs.	TIA/EIA Cat5e min dB					
.772	1.8/1.6	72.0/81	69.0/79	vs.	63	68.0/76	66.0/74	69.0	67.0	NA
1	2.0/1.7	70.3/79	68.3/77	vs.	63	68.3/75	66.3/73	67.8	65.8	20.5
4	3.9/3.6	61.3/72	57.3/68	vs.	52	59.3/67	55.3/63	55.8	53.7	23.5
8	5.6/5.2	56.8/68	51.2/63	vs.	46	54.8/63	49.2/58	49.7	47.7	25.0
10	6.2/5.9	55.3/67	49.1/61	vs.	44	53.3/62	47.1/56	47.8	45.8	25.5
16	7.9/7.4	52.2/64	44.3/57	vs.	39	50.2/60	42.3/53	43.7	41.7	25.5
20	8.9/8.4	50.8/63	41.9/55	vs.	37	48.8/58	39.9/50	41.8	39.7	25.5
25	10.0/9.4	49.3/61	39.3/52	vs.	34	47.3/57	37.3/48	39.8	37.8	24.8
31.25	11.3/10.5	47.9/60	36.6/50	vs.	31	45.9/56	34.6/46	37.9	35.9	24.1
62.5	16.3/15.3	43.4/56	27.1/41	vs.	21	41.4/52	25.1/37	31.9	29.8	22.0
100	21.0/19.7	40.3/53	19.3/33	vs.	13	38.3/48	17.3/28	27.8	25.8	20.6
155	26.8/25.0	37.4/51	10.7/26	vs.	NS	35.4/45	8.7/20	24.0	21.9	19.3
200	30.9/28.8	35.8/48	4.9/19	vs.	NS	33.8/44	2.9/15	21.8	19.7	18.5
250	35.0/32.4	34.3/47	-0.7/15	vs.	NS	32.3/44	-2.7/15	19.8	17.8	17.8
300	38.9/35.9	33.1/46	-5.8/10	vs.	NS	31.1/41	-7.8/5	18.3	16.2	17.3
350	42.6/39.3	32.1/43	-10.4/4	vs.	NS	30.1/39	-12.4/0	16.9	14.9	16.8

All values are dB/100 meters unless otherwise noted • NS- Not Specified at this frequency
Specifications subject to change without notice


Ultra II (Category 5e "Plus" 350 MHz)

For ANSI/TIA/EIA 568B.2 Category 5e+ Extended Frequency LANs


Applications: Gigabit Ethernet, 155 Mb/s ATM, 100 Mb/s TP-PMD/CDDI and Fast Ethernet
Exceeds/meets: ANSI/TIA/EIA 568B.2 Category 5e, CENELEC EN50173, ICEA S-90-661, NEMA Low-loss Extended Frequency, AS/NZS 3085.1 and ISO/IEC 11801 Class D, 3rd party verified to CommScope performance claims

Features: 1,000 to 0 footage markers every two feet (Not available for outdoor cables or multi-leg & pair counts higher than 4)
Test Report: Test report available online at www.commscopewebtrak.com.
 (Not available for outdoor cables or multi-leg & pair counts higher than 4)

Plenum


Catalog Number Safety Rating Packaging Options	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Jacket OD and colors in / mm.	Nominal Capacitance pF/ft	Input Impedance	Maximum DCR	Velocity of Propagation	Shipping Wt. in lbs. kft / km
5504M  ETL CMP/C(ETL) CMP	4	24 AWG Solid BC	FEP .007/.19 and FSPE .008/.20	CommFlex .017/0.43	.195/4.8 White, blue, yellow, pink and gray	14	100Ω ± 15%	28.6Ω/kft 9.4Ω/100m	71%	23/75.4

Non-plenum


Catalog Number Safety Rating Packaging Options	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Jacket OD and colors in / mm.	Nominal Capacitance pF/ft	Input Impedance	Maximum DCR	Velocity of Propagation	Shipping Wt. in lbs. kft / km
55N4R  ETLCMR/C(ETL) CMG	4	24 AWG Solid BC	PE .008/.20	Flame- retardant PVC .022/0.6	.210/4.9 White, blue, yellow, pink and gray	14	100Ω ± 15%	28.6Ω/kft 9.4Ω/100m	68%	21/68.8

Available in "CM" and "CMX" for International Use.


Outdoor

Catalog Number Safety Rating Packaging Options	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Jacket OD and colors in / mm.	Nominal Capacitance pF/ft	Input Impedance	Maximum DCR	Velocity of Propagation	Shipping Wt. in lbs. kft / km
5NF4  1000	4	24 AWG Solid BC	PE .010/.25	PE with Floodant .030/0.76	.240/6.1 Black	15	100Ω ± 15%	28.6Ω/kft 9.4Ω/100m	62%	38/124.6

Plenum (Siamese Construction)

Catalog Number Safety Rating Packaging Options	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Jacket OD and colors in / mm.	Nominal Capacitance pF/ft	Input Impedance	Maximum DCR	Velocity of Propagation	Shipping Wt. in lbs. kft / km
5524M  ETL CMP/C(ETL) CMP	Two 4 pr.	24 AWG Solid BC	FEP .007/.18 and FSPE .008/.20	CommFlex .017/0.43	.415/10.5 .200/5.08 White, blue and gray	14	100Ω ± 15%	28.6Ω/kft 9.4Ω/100m	71%	45/148

Non-Plenum (Siamese Construction)

Catalog Number Safety Rating Packaging Options	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Jacket OD and colors in / mm.	Nominal Capacitance pF/ft	Input Impedance	Maximum DCR	Velocity of Propagation	Shipping Wt. in lbs. kft / km
5N54  ETLCMR/C(ETL) CMG	Two 4 pr.	24 AWG Solid BC	PE .008/.20	Flame- retardant PVC .020/0.51	.435/11.05 .210/5.3 White, blue and gray	14	100Ω ± 15%	28.6Ω/kft 9.4Ω/100m	70%	44/144.3

1000 = Reel  = ComPak

Custom lengths of 2,000, 3,000 and 6,000 feet are available on reels for all twisted pair products. See Packaging Matrix for minimum order requirements and details.

DataPipe®

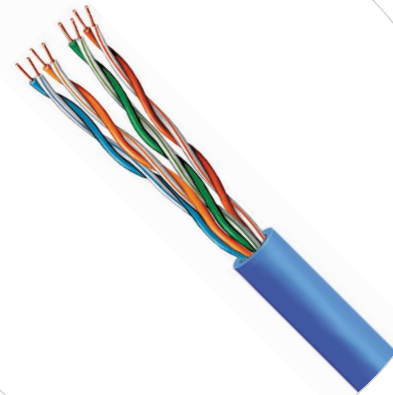


Taking Category 5e a step further, DataPipe is a 200 MHz cable developed for simultaneous bi-directional transmission over 4-pairs. Improvements to Category 5e were made and additional electrical requirements such as ISO/IEC 11801 input impedance were added. Typical applications include those of Category 5e and full duplex encoding schemes such as gigabit Ethernet. CommScope's Category 5e DataPipe cable features a Commflex jacket to reduce friction during installation resulting in less strain on the twisted pairs.

In March, 2003, we began posting the test reports online. Our unique WebTrak® system allows you to review this data online at www.commscopewebtrak.com

Foamed dielectrics also improve electrical performance:

- Lowering the dielectric constant
- Increasing the velocity of propagation (V_p)
- Reducing propagation delay
- Reducing delay skew
- Lowering the dielectric loss (attenuation)



Electrical Performance of DataPipe

Frequency MHz	Attenuation max dB/100m DataPipe	Pair to Pair				PowerSum		
		NEXT dB min DataPipe	ELFEXT dB/100m min DataPipe	Return Loss dB min DataPipe	ACR dB min DataPipe	NEXT min dB DataPipe	ELFEXT min dB/100m DataPipe	ACR min dB DataPipe
.772	1.8	67.0	66.0		65.2	64.0	63.0	62.0
1.0	2.0	65.3	63.8	20.0	63.3	62.3	60.8	60.3
4.0	4.1	56.3	51.7	23.0	52.2	53.3	48.7	49.2
8.0	5.8	51.8	45.7	24.5	45.0	48.0	42.7	43.0
10.0	6.5	50.3	43.8	25.0	43.8	47.3	40.8	40.8
16.0	8.2	47.3	39.9	25.0	39.0	44.3	36.7	36.0
20.0	9.2	45.8	37.7	25.0	36.5	42.8	34.7	33.5
25.0	10.4	44.3	35.8	24.3	33.9	41.3	32.8	30.9
31.25	11.7	42.9	33.9	23.6	31.2	39.9	30.9	28.2
62.5	17.0	38.4	27.8	21.5	21.4	35.4	24.8	18.4
100.0	22.0	35.3	23.8	20.1	13.3	32.3	20.8	10.3
155.0	28.1	32.5	19.9	18.8	4.4	29.5	16.9	1.4
200.0	32.4	30.8	17.7	18.0		27.8	14.7	

(All tests include swept frequency measurements)

DataPipe (Category 5e 200 MHz)**For ANSI/TIA/EIA 568B.2 Category 5e LANs****Applications:** Gigabit Ethernet, 155Mb/s ATM, 100Mb/s TP-PMD/CDDI and Fast Ethernet**Exceeds/meets:** ANSI/EIA 568B.2 Category 5e, ISO/IEC 11801 Class D, 3rd Party Verified to CommScope**Performance Claims****Features:** PSUM crosstalk compliant

Flexible jacket strips cleanly and resists kinking

Performance specified to 200 MHz

1,000 to 0 footage markers every two feet (Not available for outdoor cables or multi-leg & pair counts higher than 4)

Test Report: Test report available online at www.commscopewebtrak.com.

(Not available for outdoor cables or multi-leg & pair counts higher than 4)

Plenum

Catalog Number Safety Rating Packaging Options	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Jacket OD and colors in / mm.	Nominal Capacitance pF/ft	Input Impedance	Maximum DCR	Velocity of Propagation	Shipping Wt. in lbs. kft / km
5E55	4	24 AWG Solid BC	Foamed FEP .007/.18 FSPE .008/.20	CommFlex .019/.50	.180/4.6 White, blue, yellow, pink and gray	14	100Ω ± 15%	28.6Ω/kft 9.4Ω/100m	74%	20/65.6



ETL CMP/C(ETL) CMP



Catalog Number Safety Rating Packaging Options	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Jacket OD and colors in / mm.	Nominal Capacitance pF/ft	Input Impedance	Maximum DCR	Velocity of Propagation	Shipping Wt. in lbs. kft / km
5E40	4	24AWG Solid BC	Foamed FEP .007/.18	CommFlex .017/.43	.180/4.6 White, blue, yellow, pink and gray	14	100Ω ±15%	28.6Ω/kft 9.4Ω/100m	76%	21/68



ETL CMP/C(ETL) CMP

**Non-plenum**

Catalog Number Safety Rating Packaging Options	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Jacket OD and colors in / mm.	Nominal Capacitance pF/ft	Input Impedance	Maximum DCR	Velocity of Propagation	Shipping Wt. in lbs. kft / km
5EN5	4	24 AWG Solid BC	PE .008/.20	Flame- retardant PVC .022/.56	.205/5.2 White, blue, yellow, pink and gray	14	100Ω ± 15%	28.6Ω/kft 9.4Ω/100m	71%	21/68



ETL CMR/C(ETL) CMG



Available in "CM" and "CMX" for International Use.



1000 = Reel 1000 = Reel-In-Box 1000 = ComPak

Custom lengths of 2,000, 3,000 and 6,000 feet are available on reels for all twisted pair products. See Packaging Matrix for minimum order requirements and details.



DataPipe (Category 5e)


For ANSI/TIA/EIA 568B.2 Category 5e LANs

Plenum, Screened Twisted Pair (ScTP) Swept to 100 MHz

Catalog Number Safety Rating Packaging Options	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Jacket OD and colors in / mm.	Nominal Capacitance pF/ft	Input Impedance	Maximum DCR	Velocity of Propagation	Shipping Wt. in lbs. kft / km
5ES4  ETL CMP/C(ETL) CMP 	4	24AWG Solid	FEP .007/.18	CommFlex .015/.51	.235/6.0 White	14	100Ω ± 15%	28.6Ω/kft 9.4Ω/100m	71%	28/92

Non-Plenum, Screened Twisted Pair (ScTP) Swept to 100 MHz

Catalog Number Safety Rating Packaging Options	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Jacket OD and colors in / mm.	Nominal Capacitance pF/ft	Input Impedance	Maximum DCR	Velocity of Propagation	Shipping Wt. in lbs. kft / km
5ENS4  ETL CMR/C(ETL) CMG 	4	24AWG Solid	PE .010/.25	Flame- retardant PVC .020/.51	.240/6.1 Gray	14	100Ω ± 15%	28.6Ω/kft 9.4Ω/100m	68%	27/89

 = Reel

Custom lengths of 2,000, 3,000 and 6,000 feet are available on reels for all twisted pair products. See Packaging Matrix for minimum order requirements and details.

Uniprise

Category 5e

Fiber

Coax

Multi-Conductor

Conduit

Packaging

Glossary/Index

DataPipe (Category 5e)**For ANSI/TIA/EIA 568B.2 Category 5e LANs****Plenum Backbone Swept to 100 MHz**

Catalog Number Safety Rating Packaging Options	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Jacket OD and colors in / mm.	Nominal Capacitance pF/ft	Input Impedance	Maximum DCR	Velocity of Propagation	Shipping Wt. in lbs. kft / km
5E24 (6 subunits)	24	24 AWG Solid BC	FPE .007/.18	PVDF .018/.46	.586/14.9 White	14	100Ω ± 15%	28.6Ω/kft 9.4Ω/100m	71%	141/462

ETL CMP/C(ETL) CMP **1000**

Subunits colored for easy identification.

Non-Plenum Backbone Swept to 100 MHz

Catalog Number Safety Rating Packaging Options	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Jacket OD and colors in / mm.	Nominal Capacitance pF/ft	Input Impedance	Maximum DCR	Velocity of Propagation	Shipping Wt. in lbs. kft / km
5EN24 (6 subunits)	24	24 AWG Solid BC	PE .008/.20	PVC .033/.84 inner PVC .022/.56	.622/15.8 Gray	14	100Ω ± 15%	28.6Ω/kft 9.4Ω/100m	68%	124/407

ETL CMR/C(ETL) CMG **1000**

Subunits colored for easy identification.

Plenum Backbone Swept to 100 MHz

Catalog Number Safety Rating Packaging Options	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Jacket OD and colors in / mm.	Nominal Capacitance pF/ft	Input Impedance	Maximum DCR	Velocity of Propagation	Shipping Wt. in lbs. kft / km
5E25 (6 subunits)	25	24 AWG Solid BC	FEP .007/.18	PVDF .018/.46 inner CommFlex Flame- retardant PVC 0.19/.48	.590/15 White	14	100Ω ± 15%	28.6Ω/kft 9.4Ω/100m	71%	129/423

ETL CMP/C(ETL) CMP **1000**

Subunits colored for easy identification.

Non-Plenum Backbone Swept to 100 MHz

Catalog Number Safety Rating Packaging Options	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Jacket OD and colors in / mm.	Nominal Capacitance pF/ft	Input Impedance	Maximum DCR	Velocity of Propagation	Shipping Wt. in lbs. kft / km
5EN25 (6 subunits)	25	24 AWG Solid BC	PE .008/.20	PVC .033/.84 inner PVC .022/.56	.529/13.4 Gray	14	100Ω ± 15%	28.6Ω/kft 9.4Ω/100m	68%	148/485

ETL CMR/C(ETL) CMG **1000**

Subunits colored for easy identification.

1000= Reel

Custom lengths of 2,000, 3,000 and 6,000 feet are available on reels for all twisted pair products. See Packaging Matrix for minimum order requirements and details.

C O P P E R S O L U T I O N S

Category 6A

Category 6

Category 5e

ReadyPATCH™ Cu Solution

Voice Grade Systems

Modular Patch Panels

Cable Management

110 Solutions

Mixed-Use Network Solutions

Foiled Twisted Pair Solutions

Tools

ReadyPATCH™ Cu Solution
Pre-Terminated Copper Solution

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ReadyPATCH™ Cu Solution

For Data Center infrastructure needs, particularly Tier I and Tier II Data Centers, Uniprise® ReadyPATCH™ Cu pre-terminated copper solutions provide the right level of technology and the perfect combination of solution benefits.

ReadyPATCH Cu solutions are equipped with modular U/UTP connectivity systems, and each of these high-density systems comes factory-connectorized and factory tested. As a result, installer work is simplified, and component connections inside traffic-sensitive Data Centers are dramatically increased. Since ReadyPATCH Cu solutions also offer a unique combination of product quality, performance, reliability and price, they present an excellent choice for Data Center support.

ReadyPATCH Cu pre-terminated copper cable harnesses are easy to use and reliable. They deliver hassle-free installations in a fraction of the time required by traditional cabling methods, and they ensure that your network is up and running quickly. Through the innovation of modular design, these solutions improve cable management and scalability, and since each harness comes pre-terminated, the variable costs of termination, troubleshooting and rework are balanced out. ReadyPATCH Cu solutions arrive factory-tested and ready to install, backed by a 20-year warranty and CommScope's industry-leading connectivity experience.

Applications

Servers

For large-scale server deployments, server harnesses can provide a simple, clutter-free, quick installation. They are ideal for Data Center deployment with CommScope® Server Cabinets.

Switches:

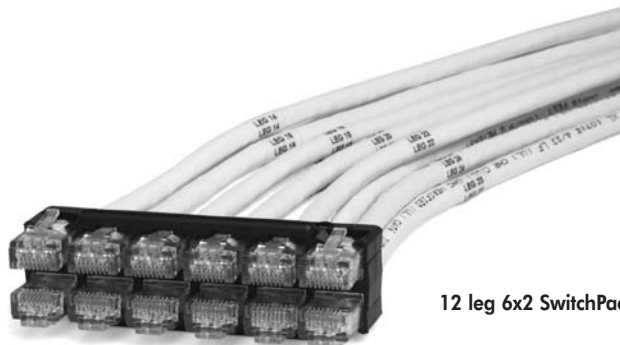
Linking network switch ports with network connectors, switch harnesses improve cable management and increase the flexibility of cross-connect fields. CommScope's SwitchPack connectivity makes these harnesses ideal for Data Centers and telecommunication rooms with high-density switch chassis.

Intra-cabinet:

Connecting electronic equipment within a single cabinet, intra-cabinet harnesses optimize cable management in this sensitive, active environment. They are ideal for server-to-server and server-to-switch deployments.

Infrastructure:

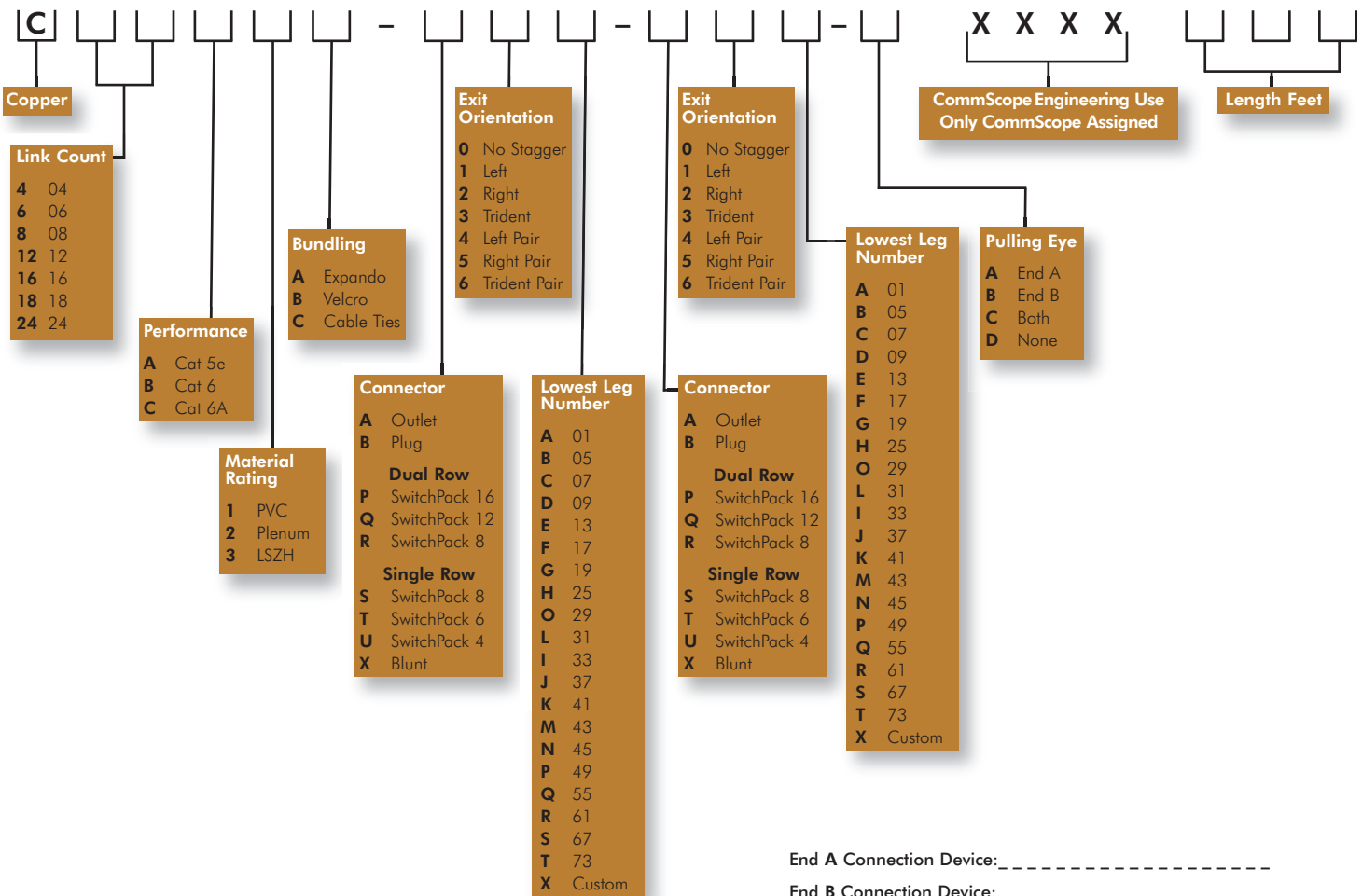
Serving both horizontal and vertical deployments, infrastructure harnesses typically feature modular connectors on each end. They are ideal for small to large Data Centers, telecommunication rooms, zone wiring environments and intelligent building applications.



12 leg 6x2 SwitchPack for use in switch harnesses

A 3D architectural rendering of a data center layout. The room is filled with numerous black server racks arranged in rows. A central circular area with a white top and grey base is surrounded by a low wall. To the right, there is a control room or office area with blue desks and chairs. A large yellow storage unit is visible in the background. The floor is light-colored wood, and the walls are white. A large cylindrical object, possibly a ventilation unit, is on the right side. The layout is designed for efficient airflow and access to the server racks.

- **Speed** – install up to eight times faster than with traditional cabling.
- **Flexibility** – choose from multiple options for a variety of copper environments.
- **Reliability** – count on a 20-year Extended Product Warranty and industry-best Applications Assurance.
- **Scalability** – plan for and install the exact number of ports you need now; add further harnesses as you need them in the future.
- **Cost-control** – enjoy pricing stability through minimized variable costs on termination, troubleshooting and rework.
- **Security** – decrease installation time in the critical Data Center spaces.



C O P P E R S O L U T I O N S

Category 6A

Category 6

Category 5e

ReadyPATCH™ Cu Solution

Voice Grade Systems

Modular Patch Panels

Cable Management

110 Solutions

Mixed-Use Network Solutions

Foiled Twisted Pair Solutions

Tools

Voice Grade Systems

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Cables	61

Patch Panels

10/100 Base-T Patch Panels

UNP550 modular patch panels are equipped with RJ21 50 pin/25 pair connectors on the back of the panel. 25-pair connectors connect to the ports through PWB (Printed Wiring Board) circuitry. They are available in 24 and 48 port versions mountable in standard 19" racks.

Applications:

EIA/TIA Category 5 terminals

Meets/exceeds:

Cat 5 requirements for attenuation and worst pair-to-pair NEXT of ISO/IEC IS11801 (2002), EN50173 and EIA/TIA 568. UL® Listed, UL-C certified, Austel approved.

Features:

Easy, secure connectivity

Specifications

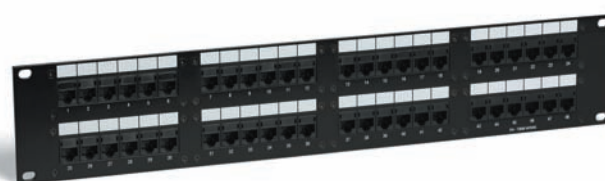
Physical Specifications	
Insertion Life:	750 cycles min.
Min. Contact Force:	100 g min (3.5 oz).
Min. Plug Retention Force:	133 N min.
Operating Temperature Range:	0 to 60°C
Storage Temperature Range:	-40 to 66°C
Humidity:	5 to 95% (noncondensing)

Patch Panels

Catalog Number	Ports	Height	Width	Depth	Packaging
UNP550-24P	4 x Telco to 24 x RJ45	4.38 cm (1 u)	48.26 cm (19 in)	4.06 cm (1.6 in)	1/Pkg
UNP550-48P	8 x Telco to 48 x RJ45	8.83 cm (2 u)	48.26 cm (19 in)	4.06 cm (1.6 in)	1/Pkg



UNP550-24P



UNP550-48P

Patch Panels

Voice Grade Patch Panels

The UNP350 panel systems are designed for premise single-pair voice networks. The front of the panel is equipped with 48 port openings designed to accommodate modular plug-ended jumper cords. The rear of the panel is equipped with RJ-21 type 50-pin 25 pair connectors, designed to accommodate Uniprise UNC550 cables terminated with an RJ-21 type plug.

Applications:

UNP350-2P-48P (Voice or 10/100 Base T)

UNP350-1P-48P (Voice Only)

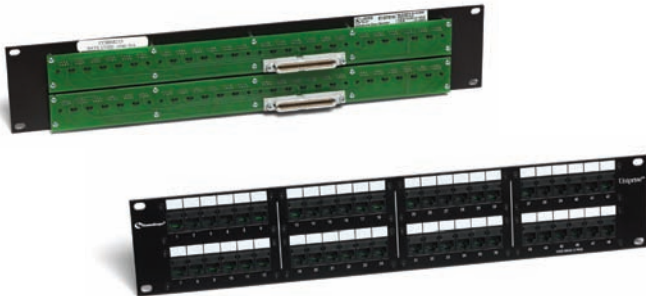
Specifications

Physical Specifications	
Insertion Life:	750 cycles min.
Min. Contact Force:	100 g min (3.5 oz).
Min. Plug Retention Force:	133 N min.
Operating Temperature Range:	0 to 60°C
Storage Temperature Range:	-40 to 66°C
Humidity:	5 to 95% (noncondensing)

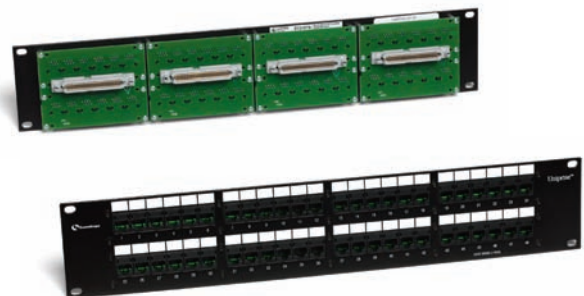
Patch Panels

Catalog Number	Ports	Height	Width	Depth	Packaging
UNP350-1P-48P (pins 4 & 5 active)	2 RJ21 25 pair connectors to 48 RJ45 ports	8.9 cm (2 u)	48.26 cm (19 in)	4.06 cm (1.6 in)	1/Pkg
UNP350-2P-48P (pins 1, 2, 3 & 6 active)	2 RJ21 25 pair connectors to 48 RJ45 ports	8.9 cm (2 u)	48.26 cm (19 in)	4.06 cm (1.6 in)	1/Pkg

UNP350-2P-48P



UNP350-1P-48P



Information Outlets

Category 3 Outlets

UNJ300 Category 3 Outlets deliver optimum performance. Design features include high-tooth pair splitters that help separate and maintain pair twists up to the termination. From 22 to 24 AWG (0.643 mm – 0.511 mm) wires are accepted in the insulation displacement connection. Jack and outlet contacts are gold/nickel-plated copper alloy for outstanding signal transmission.

UNJ300 Category 3 outlets meet applicable electrical and safety standards and are available in 11 colors. They are compatible with all standard RJ45 plugs. Snap-on icons provided in strips of three: VOICE, BLANK and BLANK.

6-pin USOC version available. Part Numbers UNJ3U6-IV and UNJ3U6-WH.

Impact tool or wire cap can be used to terminate the wire conductor. These outlets can be terminated using either the T568A or B wiring scheme.

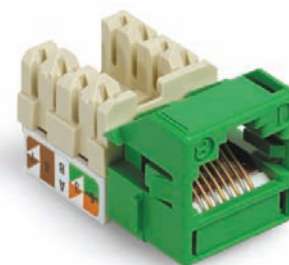
Applications:

- Work areas

Meets/exceeds:

- Category 3 requirements of ISO/IEC 11801 (Class C), EN50173-1 (Class C) and TIA/EIA 568B
- UL® Listed

UNJ300-GR with cap



Specifications

Physical Specifications	
Width:	0.787 in (2 cm)
Length:	0.787 in (2 cm)
Depth:	1.22 in (3.1 cm)
Plastic:	High-impact, flame retardant, UL-rated 94V-0 thermoplastic
Insertion Life:	> 750
Min. Contact Force:	100 g
Min. Plug Retention Force:	133 N
Operating Temperature Range:	- 40 to 150.0°F (- 40 to 66°C)

Electrical Specifications	
TIA/EIA Category:	3
Min. Insulation Resistance:	500m Ω
Min. Dielectric Withstand Voltage (Contact to contact @ 60 Hz):	1000 VAC RMS
Min. Dielectric Withstand Voltage (To exposed conductive surface @ 60 Hz):	1500 VAC RMS
Max. Contact Resistance:	20 m Ω
Current Rating @ 20°C:	1.5 A

Information Outlets

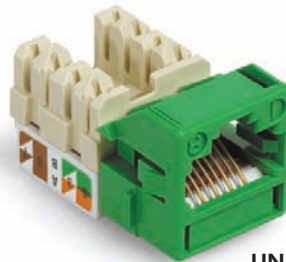
Category 3 Outlets

Category 3 Information Outlets

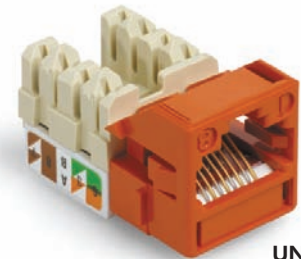
Catalog Number	Packaging	Color
UNJ300-BL	1/Pkg	Blue
UNJ300-OR	1/Pkg	Orange
UNJ300-GR	1/Pkg	Green
UNJ300-GY	1/Pkg	Gray
UNJ300-WH	1/Pkg	White
UNJ300-RD	1/Pkg	Red
UNJ300-BK	1/Pkg	Black
UNJ300-YL	1/Pkg	Yellow
UNJ300-IV	1/Pkg	Ivory
UNJ300-VL	1/Pkg	Violet
UNJ300-CM	1/Pkg	Cream



UNJ300-IV



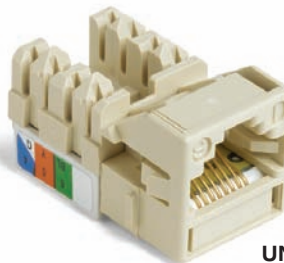
UNJ300-GR



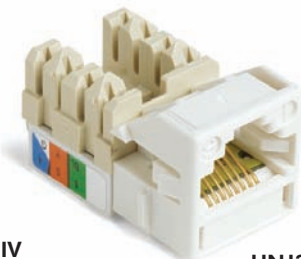
UNJ300-OR

USOC Category 3 Information Outlets

Catalog Number	Packaging	Color
UNJ3U6-IV	1/Pkg	Ivory
UNJ3U6-WH	1/Pkg	White



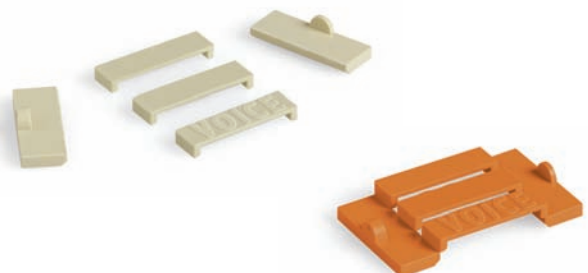
UNJ3U6-IV



UNJ3U6-WH

Bulk Icons

Catalog Number	Packaging	Color
UNJ-ICON-BL	25/Pkg	Blue
UNJ-ICON-OR	25/Pkg	Orange
UNJ-ICON-GR	25/Pkg	Green
UNJ-ICON-GY	25/Pkg	Gray
UNJ-ICON-WH	25/Pkg	White
UNJ-ICON-RD	25/Pkg	Red
UNJ-ICON-BK	25/Pkg	Black
UNJ-ICON-YL	25/Pkg	Yellow
UNJ-ICON-IV	25/Pkg	Ivory
UNJ-ICON-VL	25/Pkg	Violet
UNJ-ICON-CM	25/Pkg	Cream



Patch Cords

Cat 5 25 Pair Cords

Uniprise 550 Series patch cords are 25 pair cords equipped with telco-type male connectors. These cords work with the 550 and 350 Series panels for applications such as 10/100 Base-T or Voice.

180° Male Connector to Underterminated Specifications

Catalog Number	Length	Packaging	Color
UNC550-GY-5F-180M-U	1.5 m (5 ft)	1 ea	Gray
UNC550-GY-10F-180M-U	3 m (10 ft)	1 ea	Gray
UNC550-GY-15F-180M-U	4.6 m (15 ft)	1 ea	Gray
UNC550-GY-20F-180M-U	6 m (20 ft)	1 ea	Gray
UNC550-GY-25F-180M-U	7.62 (25 ft)	1 ea	Gray
UNC550-GY-30F-180M-U	9.2 m (30 ft)	1 ea	Gray

180° Male to 180° Male Connector Specifications

Catalog Number	Length	Packaging	Color
UNC550-GY-5F-180M-180M	1.5 m (5 ft)	1 ea	Gray
UNC550-GY-10F-180M-180M	3 m (10 ft)	1 ea	Gray
UNC550-GY-15F-180M-180M	4.6 m (15 ft)	1 ea	Gray
UNC550-GY-20F-180M-180M	6 m (20 ft)	1 ea	Gray
UNC550-GY-25F-180M-180M	7.62 (25 ft)	1 ea	Gray
UNC550-GY-30F-180M-180M	9.2 m (30 ft)	1 ea	Gray



UNC550-GY-5F-180M-180M

*Category 5 25 Pair Patch Cords will no longer be orderable as of August 1, 2009.

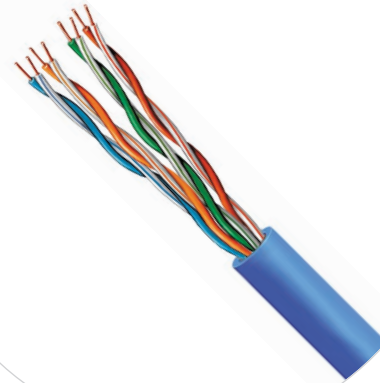
Category 3

CommScope's Category 3 cables are designed to support both voice and data applications. Near End Crosstalk (NEXT) compliance allows both half and full duplex operation of data networks.

Typical applications include 10 MB Ethernet, Token Ring, and voice networks. Features include a flexible jacket, thousand to zero footage markers, and colored pairs with co-extruded stripe.

Electrical Performance of Category 3

Frequency MHz	ATTENUATION (dB/100m)		NEAR END CROSSTALK (dB)	STRUCTURAL RETURN LOSS
	3504/35N4	3506/35N6		
0.772	2.2	6.8	43	NA
1.0	2.6	7.8	41	12
4.0	5.6	17.0	32	12
8.0	8.5	25.9	27	12
10.0	9.7	30.0	26	12
16.0	13.1	40.0	23	10



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Tools

Modular Patch Panels

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MOD Patch Panels	66

MOD-V Patch Panels

The Uniprise UNP-MOD-V-24P and UNP-MOD-V-48P Modular Panels are designed for premise high speed data, voice and multimedia networks; accepting Uniprise information outlets and configured for both copper and fiber connections. The panels are snap-in modules which allow the outlets to be terminated from the front or rear of the frame. The outlets are positioned so patch cable connectors are installed in a rotated/vertical position and the outlets can be snapped into the modules on an angle. The modular panels will support S-Video outlets, RCA adapters, BNC adapters, coaxial couplers, and LC, SC and ST fiber couplers. Panels mount in standard 19-inch racks with universal hole spacing, supports 24 ports in a 1U and 48 ports in a 2U configuration, and allows for independent installation and removal of Uniprise information outlets.

Features:

- ANSI/TIA/EIA-606-A Compliant
- Outlets are positioned so patch cable connectors are installed in a rotated/vertical position
- Outlets can be snapped into the modules on an angle to create an "angled panel" type configuration
- Uniprise information outlets can be independently installed and removed
- Equipped with 6-port bezels that can be easily removed from the front of the panel
- Includes large front facing labels and clear label covers
- Accepts the following outlets:
 - S-Video
 - RCA
 - LC, SC and ST
 - BNC
 - Coaxial
 - CommScope Information Outlets

UNP-MOD-V-24P (with straight configuration)



UNP-MOD-V-48P (with angled configuration)



UNP-MOD-V-48P Back View (angled configuration)



Specifications

Physical Specifications	
Operating Temperature Range:	-40°F to 158°F (-40°C to 70°C)
Storage Temperature Range:	14°F to 140°F (-10°C to 60°C)
Relative Humidity (Operational):	maximum, non-condensing, 93%
Materials	
Plastic Components:	PC/ABS
Flammability Rating:	UL-rated 94V-0
Listing:	UL and cUL Listed

Catalog Number	Color	Height	Width	Depth	Packaging
UNP-MOD-V-24P	Black	4.45 cm (1.75 in)	48.3 cm (19 in)	2.92 cm (1.15 in)	1/Pkg
UNP-MOD-V-48P	Black	8.89 cm (3.5 in)	48.3 cm (19 in)	3.76 cm (1.48 in)	1/Pkg

MOD Angled Patch Panels



Uniprise UNP-MOD-ANG-24P and UNP-MOD-ANG-48P Modular Angled Panels allow patching to route directly into the vertical cable managers alleviating the need for horizontal cable management. The UNP-MOD-ANG panels are designed for premise high speed data, voice and multimedia networks. The panels use snap-in modules which allows the outlets to be terminated from the front or rear of the frame. Panels mount in standard 19-inch racks with universal hole spacing, supports 24 ports in a 1U and 48 ports in a 2U configuration, and allows for independent installation and removal of Uniprise information outlets. Other features include easily removable six-port modules and front facing labels with clear label covers. The modular panels will support S-Video outlets, RCA adapters, BNC adapters, coaxial couplers, and LC, SC and ST fiber connectors.

Features:

- Panels mount in standard 19-inch racks with universal hole spacing
- Supports 24 ports in a 1U and 48 ports in a 2U configuration
- UNJ-series outlets can be independently installed and removed
- Equipped with 6-port bezels that can be easily removed from the panel
- Supplied with large white labels and clear label covers
- 8-position outlets are oriented in the standard configuration with position 1 on left and position 8 on the right
- Outlets are snapped into the bezels on a left or right angle to create an "angled panel" type of configuration
- Accepts the following outlets:
 - S-Video
 - RCA
 - LC, SC and ST
 - Coaxial
 - BNC
 - CommScope Information Outlets



UNP-MOD-ANG-48P

VIEW OF INDIVIDUAL 6 PORT BEZEL

Ordering Information

Catalog Number	Description
UNP-MOD-ANG-24P	24 Port Modular Angled Patch Panel
UNP-MOD-ANG-48P	48 Port Modular Angled Patch Panel

Specifications

Specifications	Values
DEPTH	1.5 inches
HEIGHT	1.75 inches (-24P), 3.5 inches (-48P)
WIDTH	19 inches

MOD Patch Panels

The Uniprise UNP-MOD-24P and UNP-MOD-48P Modular Panels are designed for premise high speed data, voice and multimedia networks; accepting Uniprise information outlets and configured for both copper and fiber connections. The panels use snap-in modules which allow the outlets to be terminated from the front or rear of the frame. Panels mount in standard 19-inch racks with universal hole spacing, supports 24 ports in a 1U and 48 ports in a 2U configuration, and allows for independent installation and removal of Uniprise information outlets. Other features include easily removable six-port modules, front facing labels with clear label covers. The modular panels will support S-Video outlets, RCA adapters, BNC adapters, coaxial couplers, and LC, SC and ST fiber couplers.

Features:

- Uniprise information outlets can be independently installed and removed
- Equipped with 6-port modules that can be easily removed from the panel
- Supplied with large front facing labels and clear label covers
- Accepts the following outlets:
 - S-Video
 - Coaxial
 - RCA
 - BNC
 - LC, SC and ST
 - CommScope Information Outlets

Specifications

Physical Specifications	
Operating Temperature Range:	-40°F to 158°F (-40°C to 70°C)
Storage Temperature Range:	14°F to 140°F (-10°C to 60°C)
Relative Humidity (Operational):	maximum, non-condensing, 93%
Materials	
Plastic Components:	PC/ABS
Flammability Rating:	UL-rated 94V-0
Listing:	UL and cUL Listed

UNP-MOD-24P



UNP-MOD-48P



Modular Panels

Catalog Number	Color	Height	Width	Depth	Packaging
UNP-MOD-24P	Black	4.4 cm (1.72 in)	48.3 cm (19 in)	3.0 cm (1.16 in)	1/Pkg
UNP-MOD-48P	Black	8.7 cm (3.4 in)	48.3 cm (19 in)	.32 cm (0.1 in)	1/Pkg

Modular Panels

Modular Distribution Panels

UNPMM Distribution Panels are versatile twelve and 24-port aluminum panels that can accommodate Uniprise information outlets and configured for both copper and fiber connections. They fit standard 19" mounting racks. Mounting clips, cable management distribution rings and screws are included. These distribution panels also hold BNC, F, RCA and S-Video adapters.

Applications:

- Telecommunications and Equipment Rooms

Features:

- Strong and versatile

UNPMM-24P



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Cable Management

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Cable Management Accessories

Patch Cord Organizers

UN-PCO Patch Cord Organizers keep patchcords neatly ordered on standard 19-inch racks. They are used with all Uniprise modular patch panels.

Three versions are available: UN-PCO-C1 adds 24 plastic clips to organize cable running vertically and horizontally; UN-PCO-C2 has metal distribution rings for cables on the front of the panel; and UN-PCO-C3 uses metal rings to organize cable both at the front and rear of the rack.

Applications:

- Telecommunications rooms, equipment rooms, main cross-connects, intermediate cross-connects, data centers

Specifications

Catalog Number	Rack Unit	Height	Width	Depth	Packaging	Color
UN-PCO-C1	2	8.89 cm (3.5 in)	50.8 cm (20 in)	11.43 cm (4.5 in)	1/Pkg	Black
UN-PCO-C2	2	8.89 cm (3.5 in)	48.3 cm (19 in)	9.53 cm (3.8 in)	1/Pkg	Black
UN-PCO-C3	1	4.38 cm (1.7 in)	48.3 cm (19 in)	11.7 cm (4.6 in)	1/Pkg	Black



UN-PCO-C1



UN-PCO-C2



UN-PCO-C3

Cable Management Accessories



Rear Cable Management

The Uniprise UNP-CMB and UNP-CMB2 are accessory products that can be used for rear cable management applications with applicable 510 and 610 series panels, modular style panels (UNP-MOD, UNP-MOD-V) and on standard 19-inch telecommunication racks and frames. The UNP-CMB and UNP-CMB2 platforms will also accept the UNP-FS Fiber Storage Spool for multimedia applications.

The UNP-FS Fiber Storage Spool is a 1.2 inch tall, 3 inch diameter drum for fiber storage and slack management. The spool easily mounts to either the UNP-CMB or UNP-CMB2 cable management system with the provided screw and wing nut.

Features

- UNP-CMB is a platform for rear cable management. Must be used in conjunction with the applicable 510 and 610 series patch panels and rear cable management bar.
- UNP-CMB2 is a platform and rear cable management bar. Mounts directly to the back of any standard 19-inch telecommunication rack or frame. Recommended for use with the UNP-MOD and UNP-MOD-V style modular panels
- UNP-CMB and UNP-CMB2 provide a floating surface behind panels to support cable management
- Provides two mounting locations for the UNP-FS fiber spool kits
- Integrated slots allow cable ties or straps to be attached in a parallel or perpendicular arrangement

Catalog Number	Description
UNP-CMB	Platform provides rear cable management organization for the 510 and 610 series patch panels and accepts the Fiber Storage Spool (UNP-FS) for multimedia applications
UNP-CMB2	Platform and cable management bar provide rear cable management organization and accept the Fiber Storage Spool (UNP-FS) for multimedia applications Recommended for use with UNP-MOD and UNP-MOD-V
UNP-FS	Fiber Storage Spool

UNP-CMB



UNP-CMB2



UNP-FS



Cable Management Accessories

Filler Panels

UNP-BLK Filler Panels provide a solution to fill unused space within any standard 19" rack or frame. These filler panels reserve rack space while enhancing the aesthetics in the work area. Each filler panel has the Uniprise Solutions logo and is offered in multiple sizes from 1U to 4U.

UNP-BLK-1U



UNP-BLK-2U



UNP-BLK-3U



UNP-BLK-4U



Specifications

Catalog Number	Color	Rack Unit	Height	Width	Depth	Packaging
UNP-BLK-1U	Black	1	4.45 cm (1.75 in)	48.3 cm (19 in)	.635 cm (.25 in)	1/Pkg
UNP-BLK-2U	Black	2	8.89 cm (3.50 in)	48.3 cm (19 in)	.635 cm (.25 in)	1/Pkg
UNP-BLK-3U	Black	3	13.33 cm (5.25 in)	48.3 cm (19 in)	.635 cm (.25 in)	1/Pkg
UNP-BLK-4U	Black	4	17.78 cm (7.00 in)	48.3 cm (19 in)	.635 cm (.25 in)	1/Pkg

1100C Wall Adapters

Accessories

Uniprise 1100 Wall Adapters are used for mounting panels to a flat surface. They are hinged for easy access; the hinge can be positioned on either the left or right side. They are 19" wide and come in either 3.5 or 7 inch heights.



UNP-WA-2U



UNP-WA-4U

Specifications

Catalog Number	Color	Height	Width	Depth	Packaging
UNP-WA-2U	Black	8.89 cm (3.5 in)	48.3 cm (19 in)	12.7 cm (5 in)	1/Pkg
UNP-WA-4U	Black	17.78 cm (7 in)	48.3 cm (19 in)	12.7 cm (5 in)	1/Pkg

Cable Management Accessories



Hinged Panel Kits

Uniprise hinged panel kits are designed to be used with 19" telecommunications panels. The hinge hardware is used between the uprights of standard 19" racks and the panels, and allow the panels to hinge and swing open toward the front of the rack for front access to the back of the panel and rear cable management system. Panel kits available for 1U and 2U applications*.

**First, determine the panels being used to ensure there are no structural elements on the rear of the panels that might be located too close to the uprights on the rack. As an example, the Uniprise FTP-MOD-24P panel cannot be used with the hinges because the lower shelf of this panel will not clear the rack uprights when attempting to swing the panel out. It should also be noted that the use of the hinge kits results in the panel being positioned 3/4" in front of the standard mounting plane.*



Uniprise patch panels with hinged panel kit installed



Ordering Information

Catalog Number	Description
UNP-HA-1U	Hinged Panel Kit for 1U Panels
UNP-HA-2U	Hinged Panel Kit for 2U Panels

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110 Solutions

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110 Solutions

100 and 300 Pair 110 Kits

Uniprise 110 Wiring Block Kits are designed to provide everything* needed to terminate twisted pair cables with conductors in sizes from 26 AWG to 22 AWG (0.64mm to 0.40mm). These 110 blocks consist of 25 pair groups and come in configurations to accommodate 100 or 300 pairs. These 110 blocks are wall-mountable with legs that permit cables to be routed behind them and are molded in fire-resistant plastic that meets applicable safety standards. All components of the 110 family of products and accessories work in unison with the 110 Kits. Please refer to the Uniprise Catalog for a complete offering.

*Wiring blocks and related accessories also sold separately

*UN788H1 impact tool not included

Features & Benefits

- TIA/EIA 568 compliant structured cabling systems
- Index strips are colored to facilitate wiring
- Kit Includes:
 - One 100-pair or 300-pair 110 wiring block
 - 4-pair and/or 5-pair connecting blocks
 - Label holders and labels
- Use the UN788H1 multipair tool to attach UN-110-CB-XX-10C Connecting Block Clips to the block

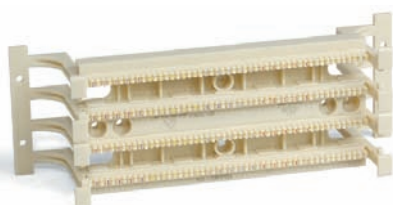
Catalog Number & Description

100 Pair Kits

Catalog Number	Description
UNK-110-WB-100PR	100 Pair 110 Kit: (20) 4pair and (4) 5 pair connecting block clips
UNK-110-WB-4M-100PR	100 Pair 110 Kit: (25) 4 pair connecting block clips
UNK-110-WB-5M-100PR	100 Pair 110 Kit: (20) 5 pair connecting block clips

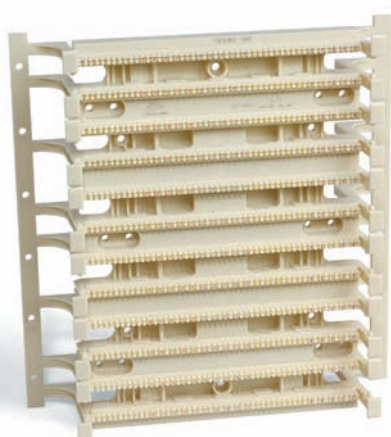
300 Pair Kits

Catalog Number	Description
UNK-110-WB-300PR	300 Pair 110 Kit: (60) 4pair and (12) 5 pair connecting block clips
UNK-110-WB-4M-300PR	300 Pair 110 Kit: (75) 4 pair connecting block clips
UNK-110-WB-5M-300PR	300 Pair 110 Kit: (60) 5 pair connecting block clips



100pr 110 Block

4pr Connecting Block Clips



300pr 110 Block

5pr Connecting Block Clips



Labels & Label Holders



110 Solutions

100-Pair and 300-Pair Wiring Blocks

Uniprise 110 Wiring Blocks are used to terminate data and voice pairs in sizes from 26 AWG to 22 AWG (0.64 mm to 0.40 mm). They come in configurations of 100 and 300 pairs. 110 wiring blocks are molded in fire-resistant plastic that meets applicable safety standards. The UN-110-WB-100PR and UN-110-WB-300PR versions are wall-mountable with legs that permit cables to be installed behind them. Also available are versions “without” legs.

Applications:

- Telecommunications rooms, equipment rooms, main cross-connects, intermediate cross-connects, data centers

Meets/exceeds:

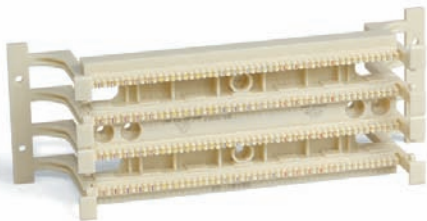
- For use in 568 compliant structured cabling systems
- UL® Listed

Features:

- Index strips marked in five tip colors for fast pair location
- Sturdy and proven design and construction
- Designed to accommodate multi-unit punchdown tool (UN788H1)

Specifications

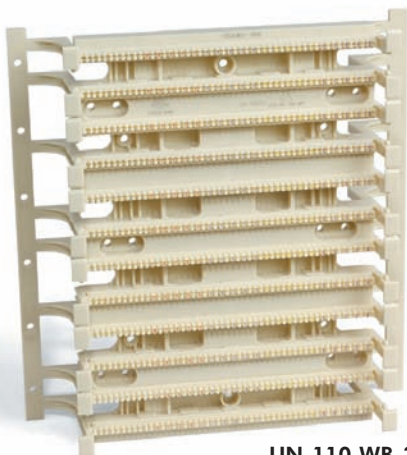
Catalog Number	Pair Size	Height	Width	Depth	Packaging
UN-110-WB-100PR	100	9.12 cm (3.6 in)	27.23 cm (10.7 in)	8.25 cm (3.2 in)	1/Pkg
UN-110-WB-300PR	300	27.41 cm (10.8 in)	27.23 cm (10.7 in)	8.25 cm (3.2 in)	1/Pkg
UN-110-WB-100PR-NL	100	9.12 cm (3.6 in)	21.6 cm (8.5 in)	3.6 cm (1.42 in)	1/Pkg
UN-110-WB-300PR-NL	300	27.41 cm (10.8 in)	21.6 cm (8.5 in)	3.6 cm (1.42 in)	1/Pkg



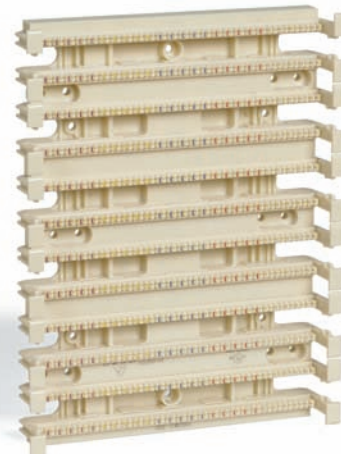
UN-110-WB-100PR



UN-110-WB-100PR-NL



UN-110-WB-300PR



UN-110-WB-300PR-NL

110 Solutions

Wall Mount Patch Panel System

The Uniprise UNK-110-WMS patch Panel System includes the UN-110-WB-100PR-NL (100 pair) block and the UN-110-T-NL cable troughs available in both 300- and 900-pair configurations. The 110 wiring blocks and cable troughs are mounted on a metal frame and are designed for durability and easy routing of Category 5e and 6 circuits. Lower troughs provide horizontal cable management. The system also includes UN-110-CB connecting blocks and can be ordered for either 4- or 5-pair modularity.

The system works in conjunction with the UNK-110-WMS-BB backboard for vertical cable management. The system exceeds Category 5e requirements, and the wiring blocks can be used for Category 6 when installed with the corresponding patch cords. Grounding hardware, labels, and designation strips are also included.

Applications:

- Telecommunications rooms, equipment rooms, main cross-connects, intermediate cross-connects, data centers

Meets/exceeds:

- TIA/EIA 568 compliant structured cabling systems
- UL® Listed

Features:

- The patch panel system is available in 300 and 900 pair configurations
- The system consists of UN-100-WB-100PR-NL (100 pair) blocks and UN-110-T-NL jumper cable troughs
- 110 wiring blocks and cable troughs are mounted on a metal back panel, which is designed to provide for the routing of incoming cables behind the blocks and cable troughs
- The system is designed for wall-mount applications, and the mounting hardware and instructions are included
- The system comes complete with UN-110-CB connecting blocks and can be ordered for 4 or 5 pair modularity
- Lower metal cable troughs are provided for horizontal cable management
- The UNK-110-WMS-BB backboard system is available separately for vertical cable management, and is equipped with metal distribution rings
- Grounding hardware, blank white labels, and clear designation strips are provided
- The system meets or exceeds the Category 5e and Category 6 requirements in ISO/IEC 11801 (2002), EN50173-1 (2002) and EIA/TIA-568B

Catalog Number & Description

Catalog Number	Description
UNK-110-WMS-5M-300PR	300-pair size w/5-pair connecting block
UNK-110-WMS-5M-900PR	900-pair size w/5-pair connecting block
UNK-110-WMS-4M-300PR	300-pair size w/4-pair connecting block
UNK-110-WMS-4M-900PR	900-pair size w/4-pair connecting block
UNK-110-WMS-BB-300PR	300-pair backboard w/D rings
UNK-110-WMS-BB-900PR	900-pair backboard w/D rings



UNK-110-WMS-XX-300PR



UNK-110-WMS-BB-300PR



UNK-110-WMS-XX-900PR



UNK-110-WMS-BB-900PR



110 Solutions

Jack Panels

Uniprise 110 Jack Panels are a convenient way to interface between 110-type wiring and RJ45 data jacks. Cables terminated with 110C Connecting Blocks press onto the 110 strip which is connected to RJ45 jacks through PWB (Printed Wiring Board) circuitry. They are available in 12 and 36 port versions and are wall-mountable with legs that permit cables to be installed behind them.

Applications:

EIA/TIA Category 5 terminals

Meets/exceeds:

Cat 5 requirements of ISO/IEC IS11801 (2002), EN50173 and EIA/TIA 568A.

UL Listed, UL-C certified, Austel approved.

Features:

Easy interface between 110 and RJ45 connections

Specifications

Physical Specifications	Description
Insertion Life:	750 cycles min.
Min. Contact Force:	100 g min (3.5 oz).
Min. Plug Retention Force:	133 N min.
Operating Temperature Range:	0 to 60°C
Storage Temperature Range:	-40 to 66°C
Humidity:	5 to 95% (noncondensing)

Electrical Specifications	Description
DC Resistance	<0.2Ω
DC Resistance Unbalance	<30 mΩ

Frequency MHz	Worst Pair Attenuation (dB)	Worst Pair NEXT (dB)	Worst Pair ReturnLoss (dB)
1	0.06	81.0	44.0
4	0.07	70.6	41.0
8	0.07	64.7	36.0
10	0.08	62.8	34.0
16	0.09	58.8	33.0
20	0.10	56.9	30.0
25	0.11	54.9	28.0
31.25	0.12	53.1	26.0
62.5	0.17	47.2	22.0
100	0.29	42.5	20.0

Jack Panels

Catalog Number	Height	Width	Depth	Packaging
UN-110-WB-100PR-12PT	4.38 cm (1 u)	48.26 cm (19 in)	4.06 cm (1.60 in)	1/Pkg
UN-110-WB-300PR-36PT	8.83 cm (2 u)	48.26 cm (19 in)	4.06 cm (1.60 in)	1/Pkg



UN-110-WB-100PR-12PT



UN-110-WB-300PR-36PT

110 Solutions

110C Connecting Blocks

Uniprise 110C Connecting Blocks press directly onto 110 wiring block terminal strips. Uses insulation displacement connections for fast, secure connection of 26 AWG to 22 AWG (0.64 mm to 0.40 mm) conductors.

110C connecting blocks are molded in fire-resistant plastic that meets applicable safety standards. Color coded for easy pair identification.

110C connecting blocks come in 3-pair, 4-pair and 5-pair modularities. They are packaged in units of 10.

Applications:

- Telecommunications rooms, equipment rooms, main cross-connects, intermediate cross-connects, data centers

Meets/exceeds:

- ISO/IEC 1180, EN50173-1 and EIA/TIA 568B
- UL® Listed

Features:

- Insulation displacement means no wire stripping
- Sturdy and proven design and construction
- Color coded for easy pair identification
- Designed to accommodate multi-unit punchdown tool (UN788H1)

Physical Specifications

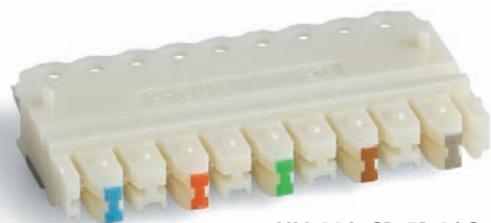
Catalog Number	Pair Size	Height	Width	Depth	Packaging
UN-110-CB-3P-10C	3	0.8 cm (0.3 in)	2.3 cm (1 in)	2.8 cm (1.1 in)	10/Pkg
UN-110-CB-4P-10C	4	0.8 cm (0.3 in)	3.1 cm (1.2 in)	2.8 cm (1.1 in)	10/Pkg
UN-110-CB-5P-10C	5	0.8 cm (0.3 in)	3.8 cm (1.5 in)	2.8 cm (1.1 in)	10/Pkg



UN-110-CB-3P-10C



UN-110-CB-4P-10C



UN-110-CB-5P-10C

110 Solutions



110 Label Holder & Labels

Uniprise 110 Label Holders snap onto 110 blocks to protect the conductor terminations. They are clear plastic and accept 110 insert labels (see below) for circuit identification. Two holders are required for a 100-pair block; six holders are needed for a 300-pair block.

Specifications

Catalog Number	Height	Width	Packaging
UN-110-LH	1.45 cm (.057 in)	20 cm (7.9 in)	6/Pkg



UN-110-LH

Uniprise 110 Insert Labels are used to identify circuits in 110 blocks and are sized to fit in our label holders. Standard versions are available in the TIA 606 recommended colors, printed with vertical lines for 3, 4 and 5-pair modularities.

Specifications

Catalog Number	Height	Width	Packaging	Color
UN-110-LAB-3M-90C-BL	1.2 cm (0.47 in)	20 cm (7.9 in)	90/Pkg	Blue
UN-110-LAB-3M-90C-WH	1.2 cm (0.47 in)	20 cm (7.9 in)	90/Pkg	White
UN-110-LAB-3M-90C-GR	1.2 cm (0.47 in)	20 cm (7.9 in)	90/Pkg	Green
UN-110-LAB-3M-90C-PU	1.2 cm (0.47 in)	20 cm (7.9 in)	90/Pkg	Purple
UN-110-LAB-3M-90C-YL	1.2 cm (0.47 in)	20 cm (7.9 in)	90/Pkg	Yellow
UN-110-LAB-3M-90C-GY	1.2 cm (0.47 in)	20 cm (7.9 in)	90/Pkg	Gray
UN-110-LAB-3M-90C-BR	1.2 cm (0.47 in)	20 cm (7.9 in)	90/Pkg	Brown
UN-110-LAB-4M-90C-BL	1.2 cm (0.47 in)	20 cm (7.9 in)	90/Pkg	Blue
UN-110-LAB-4M-90C-WH	1.2 cm (0.47 in)	20 cm (7.9 in)	90/Pkg	White
UN-110-LAB-4M-90C-GR	1.2 cm (0.47 in)	20 cm (7.9 in)	90/Pkg	Green
UN-110-LAB-4M-90C-PU	1.2 cm (0.47 in)	20 cm (7.9 in)	90/Pkg	Purple
UN-110-LAB-4M-90C-YL	1.2 cm (0.47 in)	20 cm (7.9 in)	90/Pkg	Yellow
UN-110-LAB-4M-90C-GY	1.2 cm (0.47 in)	20 cm (7.9 in)	90/Pkg	Gray
UN-110-LAB-4M-90C-BR	1.2 cm (0.47 in)	20 cm (7.9 in)	90/Pkg	Brown
UN-110-LAB-5M-90C-BL	1.2 cm (0.47 in)	20 cm (7.9 in)	90/Pkg	Blue
UN-110-LAB-5M-90C-WH	1.2 cm (0.47 in)	20 cm (7.9 in)	90/Pkg	White
UN-110-LAB-5M-90C-GR	1.2 cm (0.47 in)	20 cm (7.9 in)	90/Pkg	Green
UN-110-LAB-5M-90C-PU	1.2 cm (0.47 in)	20 cm (7.9 in)	90/Pkg	Purple
UN-110-LAB-5M-90C-YL	1.2 cm (0.47 in)	20 cm (7.9 in)	90/Pkg	Yellow
UN-110-LAB-5M-90C-GY	1.2 cm (0.47 in)	20 cm (7.9 in)	90/Pkg	Gray
UN-110-LAB-5M-90C-BR	1.2 cm (0.47 in)	20 cm (7.9 in)	90/Pkg	Brown

110 Solutions

110 Jumper Troughs

Uniprise 110 Jumper Trough is used to route patch cords and cross-connect wire between adjacent 110 blocks. They are placed between 100-pair blocks and on top of columns of 110 blocks. Like the wiring blocks, 110 jumper troughs come either with or without legs and are molded in white fire-resistant plastic that meets applicable safety standards.

Specifications

Catalog Number	Height	Width	Depth	Packaging
UN-110-T-L	6.83 cm (2.7 in.)	27.30 cm (10.7 in.)	13.91 cm (5.5 in.)	1/Pkg
UN-110-T-NL	6.83 cm (2.7 in.)	21.60 cm (8.5 in.)	8.83 cm (3.5 in.)	1/Pkg



UN-110-T-L

110 Solutions



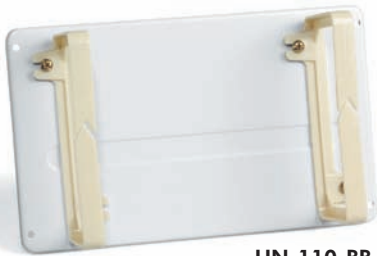
110 Backboards

Uniprise 110 Backboards are used for neatly arranging jumper wire between 110 blocks. They are placed between or next to 110 blocks for horizontal and vertical cable routing. The metal backboard supports two plastic distribution rings.

The product is available with legs or without legs.

Specifications

Catalog Number	Height	Width	Depth	Packaging
UN-110-BB-NL	16.50 cm (6.5 in)	27.30 cm (10.7 in)	8.90 cm (3.5 in)	1/Pkg
UN-110-BB-L	16.50 cm (6.5 in)	27.30 cm (10.7 in)	11.45 cm (4.5 in)	1/Pkg



UN-110-BB-NL



UN-110-BB-L

110 Solutions

Accessories

UN-110-DRG distribution rings organize patch cords and jumpers that run vertically along the side of our 110 wiring blocks. These plastic rings clip into position.

UN-110-RTR retainers hold cross-connect wires at the top and bottom corners of 110 wiring blocks. These plastic retainers clip into position on the legs of the wiring block.

Specifications

Catalog Number	Height	Width	Depth	Packaging
UN-110-DRG	1.4 cm (0.5 in)	6.99 cm (2.8 in)	8.26 cm (3.3 in)	1/pkg
UN-110-RTR	5.08 cm (2 in)	2.54 cm (1 in)	1.27 cm (0.5 in)	1/pkg



UN-110-DRG



UN-110-RTR

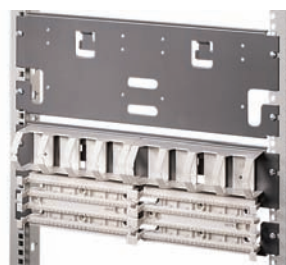
Uniprise 110 Mounting Brackets combine the features of 110-style wiring with the convenience of rack mounting. Each bracket holds two legless 100-pair 110 wiring blocks and matching jumper troughs. Cable rings support the wiring behind the bracket, and the wiring is fed through holes in the bracket to the connections. (Wiring blocks, troughs and rivets are sold separately.)

Applications:

Telecommunications and Equipment Rooms

Features:

Adapts 110 wiring blocks to standard 19" racks



UN-110-200PR-RMP

Specifications

Catalog Number	Pair Size	Height	Width	Depth	Packaging
UN-110-200PR-RMP	200	17.78 cm (7 in)	48.3 cm (19in)	1.27 cm (0.5 in)	1/Pkg

Uniprise Rivets are used to secure 110 Wiring Blocks to 110 Mounting Brackets. No special tools are required. Each package contains white plastic push-in Rivets.

Specifications

Catalog Number	Height	Width	Depth	Packaging
UN-110-RKIT-12CT	1.1 cm (0.4 in)	1.1 cm (0.4 in)	2.54 cm (1 in)	12/Pkg
UN-110-RKIT-38CT	1.1 cm (0.4 in)	1.1 cm (0.4 in)	2.54 cm (1 in)	38/Pkg



C O P P E R S O L U T I O N S

Category 6A

Category 6

Category 5e

ReadyPATCH™ Cu Solution

Voice Grade Systems

Modular Patch Panels

Cable Management

110 Solutions

Mixed-Use Network Solutions

Foiled Twisted Pair Solutions

Tools

Mixed-Use Network Solutions

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Mixed-Use Network Solutions

Uniprise Mixed-Use Network Solutions are designed to create a fully integrated network environment that supports all current and emerging communication and video entertainment applications for residential customers. This system is designed as a total end-to-end solution specifically for residential applications. The modular and flexible design suits each customer's home floor plan - and budget. Residential customers can customize their homes to meet their household's present and future networking needs.

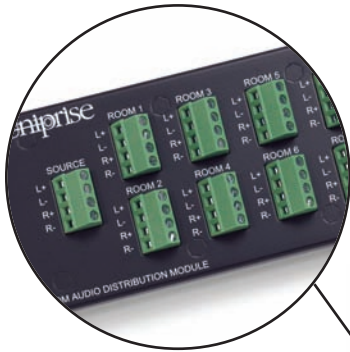
Unlike traditional home wiring systems, Uniprise Mixed-Use Network System provides simultaneous distribution of high-speed data, voice and video signals throughout the house. All incoming signals are fed into a media distribution device, then distributed to individual room outlets. Once the system is installed, all electronic equipment, including cable, satellite, computers, printers and fax machines can be connected and networked to virtually any outlet in the home.

Features:

- Complete Control of your Home's:
 - Telephone, Video, Data CATV, Satellite, HDTV, Security Systems
- Cat 5e Compliant System
- Supports EIA/IS-60 CEBus Standard for Home Automation Systems
- Flexible Patch Panel Modularity allows for easy upgrading
- Fiber Compliant accepting SC, ST and LC Fiber Connections
- Meets EIA/TIA 570 residential wiring standard
- Open architecture-based, supporting a wide array of standards and vendor-independent applications
- Optional Lock Kit Provided for Added Security



Mixed-Use Network Solutions

UNMDU-ADM-8



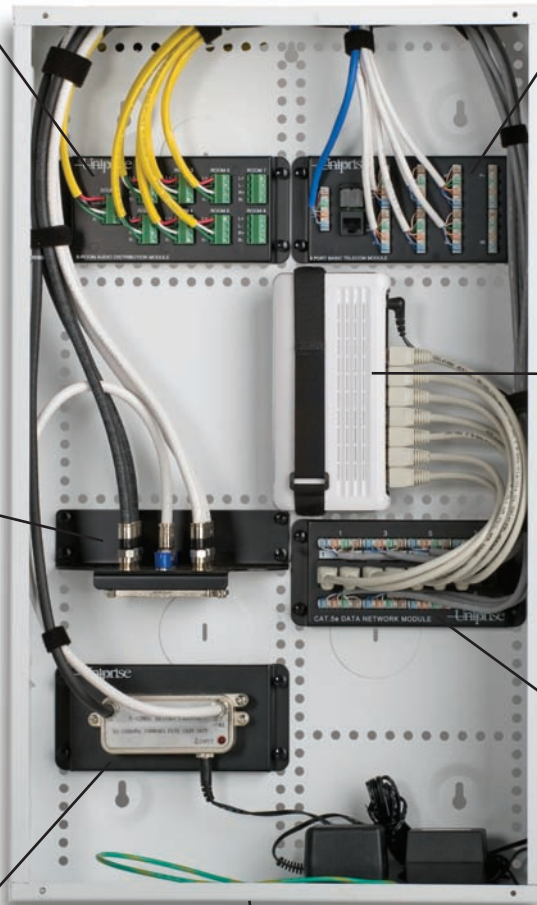
UNMDU-TDM-8



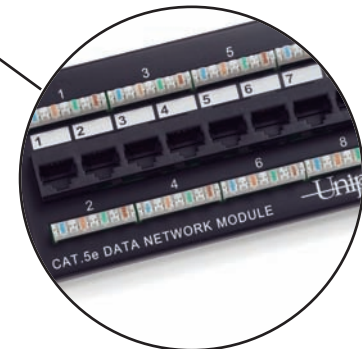
UNMDU-VDM-18-1G



UNMDU-SW-8



UNMDU-ENCL-24



UNMDU-DDM-8-C5E



UNMDU-VAM

Uniprise

MDU/Residential
Solutions

Fiber

Coax

Multi-Conductor

Conduit

Packaging

Glossary/Index

Mixed-Use Network Solutions

Enclosures with Locking Hinged Door



UNMDU-ENCL-14

Catalog Number	Description
UNMDU-ENCL-14	Enclosure, MDU, 14 x 14.375 x 4.625



UNMDU-ENCL-24

Catalog Number	Description
UNMDU-ENCL-24	Enclosure, MDU, 24 x 14.375 x 4.625



UNMDU-ENCL-34

Catalog Number	Description
UNMDU-ENCL-34	Enclosure, MDU, 34 x 14.375 x 4.625

Economy Enclosures

Enclosures with Panel Cover



UNMDU-ENCL-14E



Catalog Number	Description
UNMDU-ENCL-14E	Enclosure, MDU, 14 x 14.375 x 4.17



UNMDU-ENCL-28E

Catalog Number	Description
UNMDU-ENCL-28E	Enclosure, MDU, 28 x 14.375 x 4.17

Mixed-Use Network Solutions



Basic MDU Components

Catalog Number	Description
UNMDU-VDM-14-1G	Video Distribution Module (1 X 4) 1GHz
UNMDU-VDM-14-2G	Video Distribution Module (1 x 4) 2GHz
UNMDU-VDM-16-1G	Video Distribution Module (1 x 6) 1GHz
UNMDU-VDM-16-2G	Video Distribution Module (1 x 6) 2GHz
UNMDU-VDM-18-1G	Video Distribution Module (1 x 8) 1GHz
UNMDU-VDM-18-2G	Video Distribution Module (1 x 8) 2GHz
UNMDU-VAM	Video Amplifier Module
UNMDU-SW-8	8 Port 10/100Mbps Network Switch
UNMDU-TDM-EXP-8	8 Port Expansion Module
UNMDU-TDM-8	8 Port Basic Telecom Module
UNMDU-DDM-8-C5E	8 Port Data Module, CAT 5e
UNMDU-DDM-8-C6	8 Port Data Module, CAT 6
UNMDU-ADM-4	4-Room Audio Distribution Module
UNMDU-ADM-6	6-Room Audio Distribution Module
UNMDU-ADM-8	8-Room Audio Distribution Module
UNMDU-CDM-1D/6T	Combination Module - 1 port data (Cat. 5e), 6 port telecom
UNMDU-CDM-2S/24T	Multi-port Patchable Telecom Module



UNMDU-VDM-14-1G



UNMDU-VDM-14-2G



UNMDU-VDM-16-1G



UNMDU-VDM-16-2G



UNMDU-VDM-18-1G



UNMDU-VDM-18-2G



UNMDU-VAM



UNMDU-SW-8



UNMDU-TDM-EXP-8



UNMDU-TDM-8



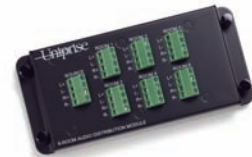
UNMDU-DDM-8-C6



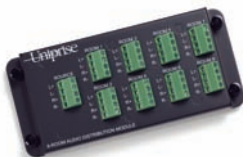
UNMDU-DDM-8-C5E



UNMDU-ADM-4



UNMDU-ADM-6



UNMDU-ADM-8



UNMDU-CDM-1D/6T



UNMDU-CDM-2S/24T



Uniprise

MDU/Residential
Solutions

Fiber

Coax

Multi-Conductor

Conduit

Packaging

Glossary/Index

Mixed-Use Network Solutions

Enhanced MDU Components

Catalog Number	Description
UNMDU-BKT	Empty Bracket, Router/Switch/Hub
UNMDU-BKT-11050	Bracket (incl.) 110-50 Pair Block
UNMDU-BKT-CDM1	Empty Bracket, (3) pos.
UNMDU-MOD-ANG-12P	Empty Modular Panel (angled)
UNMDU-MOD-12P	Empty Modular Panel (straight)
UNMDU-DM	Data Module
UNMDU-VM	Voice Module



UNMDU-BKT



UNMDU-BKT-11050



UNMDU-BKT-CDM1



UNMDU-MOD-ANG-12P



UNMDU-MOD-12P



UNMDU-DM



UNMDU-VM

C O P P E R S O L U T I O N S

Category 6A

Category 6

Category 5e

ReadyPATCH™ Cu Solution

Voice Grade Systems

Modular Patch Panels

Cable Management

110 Solutions

Mixed-Use Network Solutions

Foiled Twisted Pair Solutions

Tools

Foiled Twisted Pair Solutions

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Foiled Twisted Pair (F/UTP) Modular Patch Panel

The Uniprise Foiled Twisted Pair Modular Patch Panel (FTP-MOD-24P) is a 19-inch rack mounted panel that accepts up to 24 F/UTP information outlets for patching and interconnection in the telecommunications closet or equipment room. The Uniprise F/UTP Modular Patch Panel is an integral part of the Uniprise Foiled Twisted Pair (F/UTP) Category 6 and 5e systems.

When installed with Uniprise F/UTP Information Outlets, F/UTP Modular Patch Cords and F/UTP Cable, the result is unparalleled end-to-end channel performance and superior electromagnetic compatibility (EMC) performance in high external noise environments.

This patch panel, when used with the FTP-J6A and FTP-J5E Information Outlets, meets the Category 6, 6A and 5e requirements respectively.

Features

- Accommodates 24 F/UTP information outlets for easy termination of 4-pair F/UTP cable
- 1U design maximizes rack space
- Plug and play design provides easier termination and facilitation of moves, adds and changes
- Modularity will support F/UTP, U/UTP and fiber terminations
- UL listed
- Supports Category 6, 6A and 5e applications
- Qualifies for a Uniprise F/UTP Solution 20-Year Extended Product Warranty when included as part of a Uniprise F/UTP channel.

Specifications

Physical Specifications	
Height	24-Ports 1.75 in (4.45 cm)
Width	19 in (48.20 cm)
Depth	4.16 in (10.60 cm)

Catalog Number	Packaging
FTP-MOD-24P	1/pkg



FTP-MOD-24P Modular F/UTP Patch Panel

Foiled Twisted Pair (F/UTP) Information Outlets



The FTP-J6 and FTP-J5E Information Outlets are an integral part of the Uniprise Foiled Twisted Pair (F/UTP) System. These outlets meet the Category 6 and 5e specifications as specified in ANSI/TIA/EIA-568-B.2, IEC 60603-7-5 and ISO/IEC 11801. The FTP-J6 meets all components specifications to 250 MHz, with the FTP-J5E meeting 100 MHz, and both utilize the same proprietary cross-talk cancellation techniques for superior NEXT and PSNEXT as with other Uniprise patented information outlets.

Features

- Snaps into standard faceplates, surface-mount boxes and consolidation point boxes
- Universal design and label supports both T568 A and B wiring
- IDC connector terminations on rear of base allow quick and easy installation of 22 to 24 AWG cable
- Backward compatible with lower category cords and cables, however optimal performance achieved when used with appropriate category patch cords
- UL listed
- Can support high bandwidth applications including IEEE 802.3ab 1000BASE-T (Gigabit Ethernet).
- Qualifies for a Uniprise F/UTP Solutions 20-Year Extended Product Warranty when included as part of a Uniprise F/UTP channel

Physical Specifications	Dimensions
Length	1.61 in (41 mm)
Width	0.80 in (20 mm)
Depth	0.82 in (21 mm)
Plastic	High-impact, flame retardant, UL-rated 94V-0 thermoplastic
Jack Wires	Copper alloy, 2.54 μ m bright solder over 2.54 μ m nickel underplate
Insertion Life:	>750 insertions of an FCC 8 position telecommunications plug
Min. Contact Force:	100 g using FCC approved modular plug
Min. Plug Retention Force:	133 N
Operating Temperature Range:	14 to 140 °F (-10 to 60 °C)

Electrical Specifications	Dimensions
EIA/TIA	FTP-J6 = 6 / FTP-J5E = 5e
Min. Insulation Resistance	500 Megaohms minimum
Min. Dielectric Withstand Voltage (contact to contact DC or @ 60 Hz)	1000 V DC or AC peak
Min. Dielectric Withstand Voltage (contact to exposed conductive surface, DC or @ 60 Hz)	1500 V DC or AC peak
Max. Contact Resistance	20 mW
Current Rating @ 20° C	1.5 A

Catalog Number & Description

Catalog Number	Packaging	Color
FTP-J6	1/pkg	Silver
FTP-J5E	1/pkg	Silver



FTP-J6A Information Outlet

Foiled Twisted Pair (F/UTP) Modular Patch Cords



The FTP-PC6-GYx and FTP-PC5E-GYx Patch Cords consists of high quality components designed to assure high performance in both Category 6 and 5e applications. These patch cords meet the Category 6 and 5e specifications as specified in ANSI/TIA/EIA-568-B.2, IEC 60603-7-5 and ISO/IEC 11801. The Uniprise F/UTP patch cords are designed to mate with the Uniprise F/UTP information outlets to minimize signal reflections and significantly improve performance.

Features

- Enhanced plug design, improved 24-gauge (0.511 mm) cordage and a unique manufacturing process assures extremely high electrical performance with low variability
- Improved anti-snap feature provides maximum protection from snagging during moves, adds and changes
- Available in gray solid conductor cordage
- UL listed
- Can support high bandwidth applications including IEEE 802.3ab 1000BASE-T (Gigabit Ethernet).
- Qualifies for a Uniprise F/UTP Solutions 20-Year Extended Product Warranty when included in a certified Uniprise F/UTP channel

Physical Specifications	Dimensions
Operating Temperature Range	-10 to 60° C (14 to 140° F)
Contact Stability	20 Ω max. change
Insertion Life	750 insertions
Contact Plating	1.27 μ m Gold over 2.540 μ m Nickel

Guaranteed Channel Performance Specifications for Cat 6 Modular Patch Cords

Frequency MHz	Insertion Loss dB	NEXT dB	ACR dB	PSNEXT dB	PSACR dB	ELFEXT dB	PSELFEXT dB	Return Loss dB
1.0	2.0	75.7	73.6	75.3	73.3	67.3	67.3	22.0
4.0	3.8	66.0	62.2	65.5	61.7	55.2	55.2	22.0
8.0	5.4	61.2	55.8	60.6	55.2	49.2	49.2	22.0
10.0	6.0	59.6	53.6	59.0	53.0	47.3	47.3	22.0
16.0	7.6	56.2	48.6	55.6	47.9	43.2	43.2	21.0
20.0	8.6	54.6	46.1	54.0	45.4	41.2	41.2	20.5
25.0	9.6	53.0	43.4	52.3	42.7	39.3	39.3	20.0
31.25	10.8	51.4	40.6	50.7	39.9	37.4	37.4	19.5
62.5	15.6	46.4	30.7	45.6	29.9	31.3	31.3	17.0
100.0	20.2	42.9	22.7	42.1	21.8	27.3	27.3	15.0
200.0	30.0	37.8	7.8	36.9	6.9	21.2	21.2	12.0
250.0	34.1	36.1	2.0	35.2	1.0	19.3	19.3	11.0

All values apply to worst-case 100-meter channels utilizing 4-pair Category 6 F/UTP cables with full cross-connects, consolidation points and work outlets (4 connectors in a channel).



FTP-PC5E-GYx



FTP-PC6-GYx

Catalog Number & Description

Catalog Number	Packaging	Color
FTP-PC6-GY3	1/pkg	Gray
FTP-PC6-GY5	1/pkg	Gray
FTP-PC6-GY7	1/pkg	Gray
FTP-PC6-GY9	1/pkg	Gray
FTP-PC6-GY15	1/pkg	Gray
FTP-PC6-GY25	1/pkg	Gray
FTP-PC5E-GY3	1/pkg	Gray
FTP-PC5E-GY5	1/pkg	Gray
FTP-PC5E-GY7	1/pkg	Gray
FTP-PC5E-GY9	1/pkg	Gray
FTP-PC5E-GY15	1/pkg	Gray
FTP-PC5E-GY25	1/pkg	Gray

Foiled Twisted Pair (F/UTP) Cables




Uniprise F/UTP cables exhibit excellent crosstalk performance, enabled via optimized twist and strand schemes, dramatically enhancing high-frequency performance using the latest in cable technology. The Category 6 cables are manufactured with a patented pair isolator which further provides separation of the pairs and enhanced crosstalk performance.


Features

- Test report available online at www.commscopewebtrak.com
- Flexible jacket strips cleanly and resists kinking
- Coextruded color striped pairs for easy identification
- 1,000 to 0 footage markers every two feet
- Available in reels


Category 6 Foiled Twisted Pair Cable - Plenum

Catalog Number Safety Rating Packaging Options	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Jacket OD and colors in / mm.	Nominal Capacitance pF/ft	Input Impedance	Maximum DCR	Velocity of Propagation	Shipping Wt. in lbs. kft / km
65S4+  ETL CMP/C(ETL) CMP	4	23 AWG Solid BC	FEP .010/.25	PVC .018/0.46	.268/6.8 white	14	100Ω ± 15%	28.6Ω/kft 9.38Ω/100m	71%	37/112


Category 6 Foiled Twisted Pair Cable - Non-Plenum

Catalog Number Safety Rating Packaging Options	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Jacket OD and colors in / mm.	Nominal Capacitance pF/ft	Input Impedance	Maximum DCR	Velocity of Propagation	Shipping Wt. in lbs. kft / km
65NS4+  ETL CMR/C(ETL) CMG	4	24 AWG Solid BC	PE .010/.25	PVC .020/0.51	.270/6.9 gray	14	100Ω ± 15%	28.6Ω/kft 9.38Ω/100m	71%	28/85

Category 5e Foiled Twisted Pair Cable - Plenum

Catalog Number Safety Rating Packaging Options	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Jacket OD and colors in / mm.	Nominal Capacitance pF/ft	Input Impedance	Maximum DCR	Velocity of Propagation	Shipping Wt. in lbs. kft / km
5ES4  ETL CMP/C(ETL) CMP	4	24AWG Solid	FEP .009/.23	CommFlex .015/.51	.200/5.0 White	14	100Ω ± 15%	28.6Ω/kft 9.38Ω/100m	71%	28/92

Category 5e Foiled Twisted Pair Cable - Non-Plenum

Catalog Number Safety Rating Packaging Options	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Jacket OD and colors in / mm.	Nominal Capacitance pF/ft	Input Impedance	Maximum DCR	Velocity of Propagation	Shipping Wt. in lbs. kft / km
5ENS4  ETL CMR/C(ETL) CMG	4	23.5AWG Solid	PE .010/.25	Flame- retardant PVC .020/.51	.240/6.1 Gray	14	100Ω ± 15%	28.6Ω/kft 9.38Ω/100m	68%	27/89

 = Reel  = Reel-In-Box

Custom lengths of 2,000, 3,000 and 6,000 feet are available on reels for all twisted pair products. See Packaging Matrix for minimum order requirements and details.

C O P P E R S O L U T I O N S

Category 6A

Category 6

Category 5e

ReadyPATCH™ Cu Solution

Voice Grade Systems

Modular Patch Panels

Cable Management

110 Solutions

Mixed-Use Network Solutions

Foiled Twisted Pair Solutions

Tools

Tools

The UN788H1 Impact Tool consists of a metal spring-loaded handle with metal head housing a reversible insert (one side of the insert is for termination only and the other side is for terminate and trim). The handle is fitted with a rubber grip for better gripping and comfort. The UN788H1 is used for terminating or terminating and trimming ten connectors at a time. It is also used for seating the 110C Connecting Block onto the 110 Wiring Block. The UN788M2 Replacement Head can be ordered separately.

Catalog Number	Description
UN788H1 Tool	Impact tool (handle + blade), 10 cond.
UN788M2 Head	Replacement head for the 788H1 Impact Tool
UN788 KIT	Replacement blades



UN788H1 Tool

F I B E R S O L U T I O N S

ReadyPATCH™ Solution

Assemblies/Terminated Cables

Pre-Terminated Shelves

Enclosures

Panels

Adapters

Connectors

Accessories

Closures

Tool Kits

Cables

ReadyPATCH™ Solution
Pre-Terminated Fiber Solution

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ReadyPATCH™ Solution

Data Centers are critical to the effectiveness of any enterprise, and when it comes to installing or expanding this infrastructure, time is of the essence. Data Centers house sensitive business information. As such, Data Center managers want installers and contractors on site as little as possible during these strategic installations. CommScope has an answer — the Uniprise ReadyPATCH™ Solution. The ReadyPATCH Solution combines pre-terminated, factory-tested hardware and backbone trunk cables with ruggedized MPO-single fiber fanout patch cords, array patch cords and standard fiber patch cords. The beauty of ReadyPATCH is that it allows installers to rapidly connect system components in a fraction of the time required with traditional field terminable solutions. Since the solution enables up to 144 fibers to be ready for service at once, time to usability is accelerated dramatically, with factory-guaranteed performance.

ReadyPATCH is configurable with the option of keyed connectors and adapters, for enhanced security. Today's facilities often employ more than one network and need mechanical security to limit access and prevent inadvertent cross-connections. ReadyPATCH keyed products have special molded features on the connector plug and molded keys in the adapter to reduce the chance of unauthorized connections.

Through its Uniprise product line, CommScope addresses the need for value-based network infrastructure solutions by delivering the perfect combination of product quality, performance, reliability and price. Drawing on CommScope's 40-year heritage in fiber optic technology, ReadyPATCH supports the deployment of both multimode and single-mode fiber in any Data Center. Uniprise offerings are designed to provide the right level of proven technology for customers concerned with reliability and performance for everyday applications. With ReadyPATCH, Uniprise provides an ideal solution for Data Centers of every size.

Features:

- Factory-terminated and tested cable and apparatus provide instant field connections with guaranteed quality and performance.
- Advanced MPO module design features higher density than most competitors' offers and provides up to 50% savings in space.
- Provides opportunities for lower total installed system cost (material plus labor)
- An easy upgrade path from duplex to parallel connectivity enables ultra-high speed/bandwidth applications (10/40/100Gbps).
- Standards-based (TIA-568 Method B) polarity topology requires no special polarity components and ensures guaranteed transmit-to-receive connectivity.
- Supports easy reconfiguration for moves, adds, and changes
- Keyed LC interfaces are available for security needs, network and/or protocol segregation, reducing the chance of unauthorized connections.

ReadyPATCH™ Enclosure & Panel



Catalog Number	Description
RFE-FXD-EMT-BK/1U-MPO	1U Fixed Panel - Supports up to 3 modules
RFE-FXD-EMT-BK/4U-MPO	4U Fixed Enclosure - Supports up to 12 modules
WBE-EMT/4P-PNL	Wallmount Building Enclosure - Supports up to 4 modules



RFE-FXD-EMT-BK/4U-MPO



RFE-FXD-EMT-BK/1U-MPO
(Shown with modules)

ReadyPATCH™ Modules & Adapter Panels

Standard Modules and MPO Adapters

Catalog Number	Description
RFE-MOD-024-5L-MPO-LC02	24F, LC, Laser Optimized, 50 μ m, Multimode
RFE-MOD-024-6F-MPO-LC02	24F, LC, 62.5 μ m, Multimode
RFE-MOD-024-8W-MPO-LC02	24F, LC, Single-mode
RFE-MOD-012-5L-MPO-LC02	12F, LC, Laser Optimized, 50 μ m, Multimode
RFE-MOD-012-5L-MPO-SC02	12F, SC, Laser Optimized, 50 μ m, Multimode
RFE-MOD-012-6F-MPO-LC02	12F, LC, 62.5 μ m, Multimode
RFE-MOD-012-6F-MPO-SC02	12F, SC, 62.5 μ m, Multimode
RFE-MOD-012-8W-MPO-LC02	12F, LC, Single-mode
RFE-MOD-012-8W-MPO-SC02	12F, SC, Single-mode
RFE-PNL-024-MPO-MP01	Bulkhead Panels, 2 MPO
RFE-PNL-072-MPO-MP01	Bulkhead Panels, 6 MPO
RFE-PNL-096-MPO-MP01	Bulkhead Panels, 8 MPO
RFE-PNL-BLANK-BK/4U-6-PACK	Bulkhead Panels, Blank (pk of 6)



RFE-FXD-EMT-BK/4U-MPO
(with standard modules)



Standard Modules

ReadyPATCH™ Keyed Modules & Adapter Panels

Keyed Options

Catalog Number	Description
RFE-MOD-024-5L-MPO-LC02-KBL	24F, LC, Laser Optimized, 50μm, Multimode, Keyed Blue
RFE-MOD-024-5L-MPO-LC02-KGR	24F, LC, Laser Optimized, 50μm, Multimode, Keyed Green
RFE-MOD-024-5L-MPO-LC02-KRD	24F, LC, Laser Optimized, 50μm, Multimode, Keyed Red
RFE-MOD-024-5L-MPO-LC02-KYL	24F, LC, Laser Optimized, 50μm, Multimode, Keyed Yellow
RFE-MOD-024-6F-MPO-LC02-KBL	24F, LC, 62.5 μm, Keyed Blue
RFE-MOD-024-6F-MPO-LC02-KGR	24F, LC, 62.5 μm, Keyed Green
RFE-MOD-024-6F-MPO-LC02-KRD	24F, LC, 62.5 μm, Keyed Red
RFE-MOD-024-6F-MPO-LC02-KYL	24F, LC, 62.5 μm, Keyed Yellow
RFE-MOD-024-8W-MPO-LC02-KBL	24F, LC, Single-mode, Keyed Blue
RFE-MOD-024-8W-MPO-LC02-KGR	24F, LC, Single-mode, Keyed Green
RFE-MOD-024-8W-MPO-LC02-KRD	24F, LC, Single-mode, Keyed Red
RFE-MOD-024-8W-MPO-LC02-KYL	24F, LC, Single-mode, Keyed Yellow
RFE-MOD-012-5L-MPO-LC02-KBL	12F, LC, Laser Optimized, 50μm, Multimode, Keyed Blue
RFE-MOD-012-5L-MPO-LC02-KGR	12F, LC, Laser Optimized, 50μm, Multimode, Keyed Green
RFE-MOD-012-5L-MPO-LC02-KRD	12F, LC, Laser Optimized, 50μm, Multimode, Keyed Red
RFE-MOD-012-5L-MPO-LC02-KYL	12F, LC, Laser Optimized, 50μm, Multimode, Keyed Yellow
RFE-MOD-012-6F-MPO-LC02-KBL	12F, LC, 62.5 μm, Keyed Blue
RFE-MOD-012-6F-MPO-LC02-KGR	12F, LC, 62.5 μm, Keyed Green
RFE-MOD-012-6F-MPO-LC02-KRD	12F, LC, 62.5 μm, Keyed Red
RFE-MOD-012-6F-MPO-LC02-KYL	12F, LC, 62.5 μm, Keyed Yellow
RFE-MOD-012-8W-MPO-LC02-KBL	12F, LC, Single-mode, Keyed Blue
RFE-MOD-012-8W-MPO-LC02-KGR	12F, LC, Single-mode, Keyed Green
RFE-MOD-012-8W-MPO-LC02-KRD	12F, LC, Single-mode, Keyed Red
RFE-MOD-012-8W-MPO-LC02-KYL	12F, LC, Single-mode, Keyed Yellow

*Other colors available. Please contact your Customer Care Representative for more information.

**Keyed Modules have color-coded faceplates to indicate the type of Fiber being used: Laser Optimized 50μm modules have aqua faceplates, 62.5μm modules have slate faceplates, and single-mode modules have blue faceplates.



12 Fiber, LC, Laser Optimized
50μm, Keyed Modules

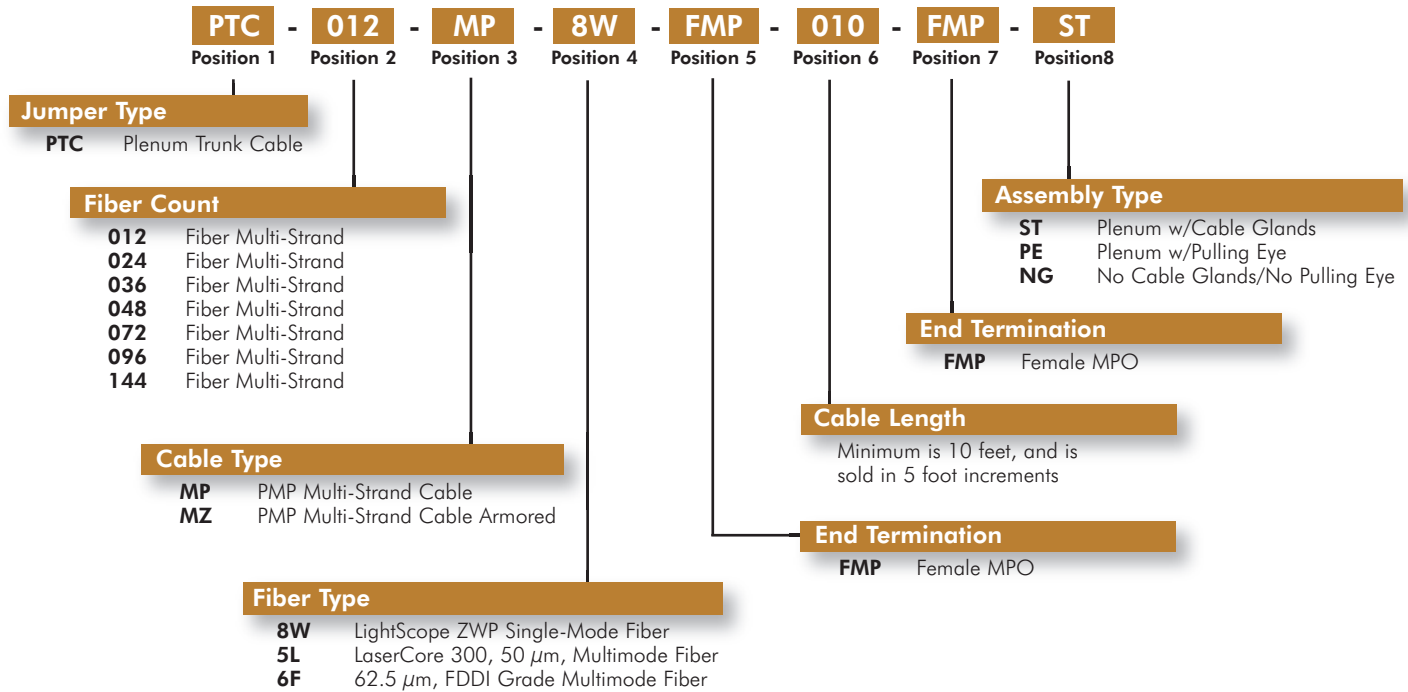


RFE-FXD-EMT-BK/1U-MPO
(12 Fiber, LC, Laser Optimized
50μm, Keyed Modules)

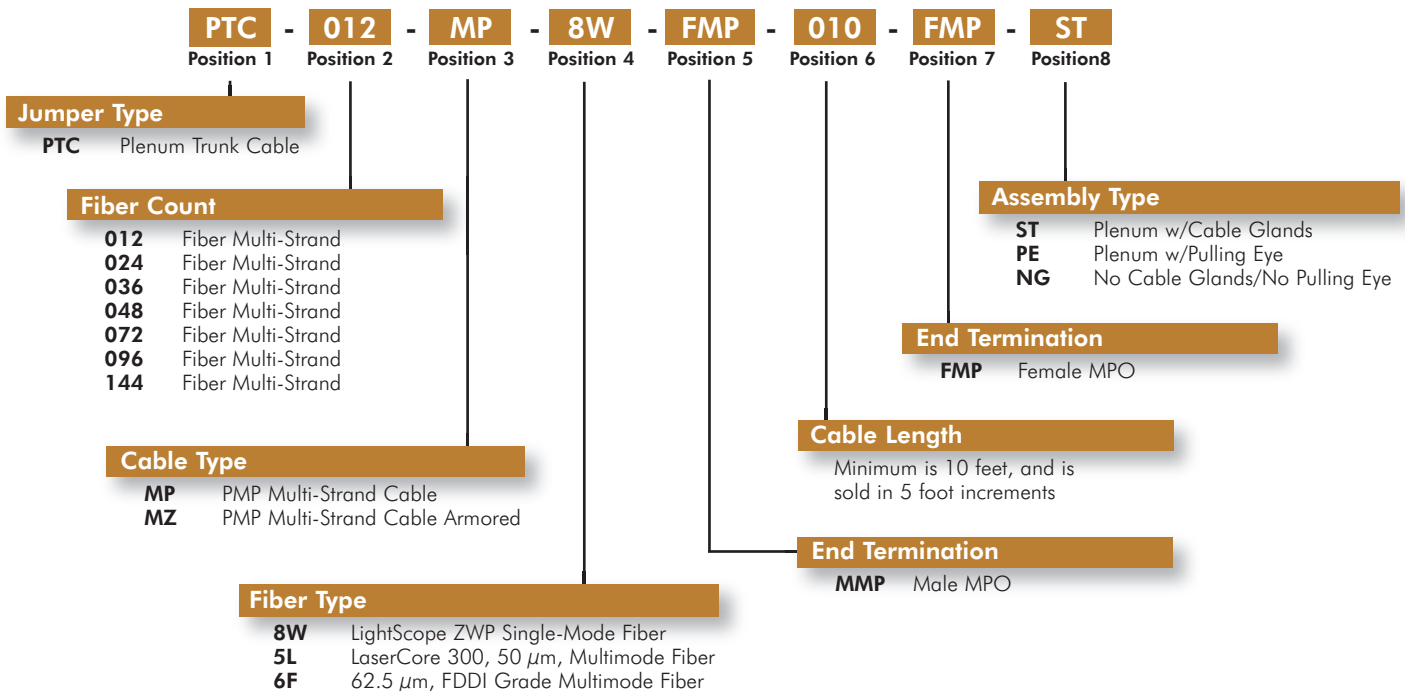
ReadyPATCH™ Trunk Cables



Plenum Trunk Cable (Product Code Configurator)



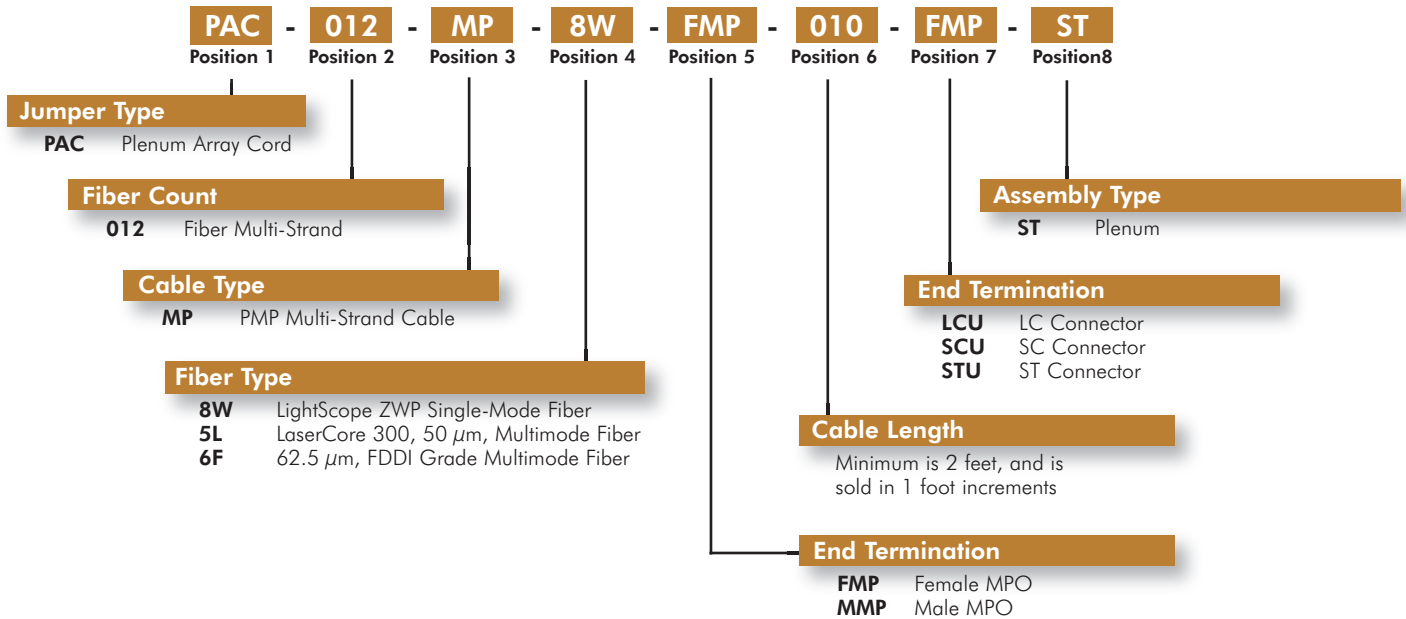
Plenum Trunk Cable Extension (Product Code Configurator)



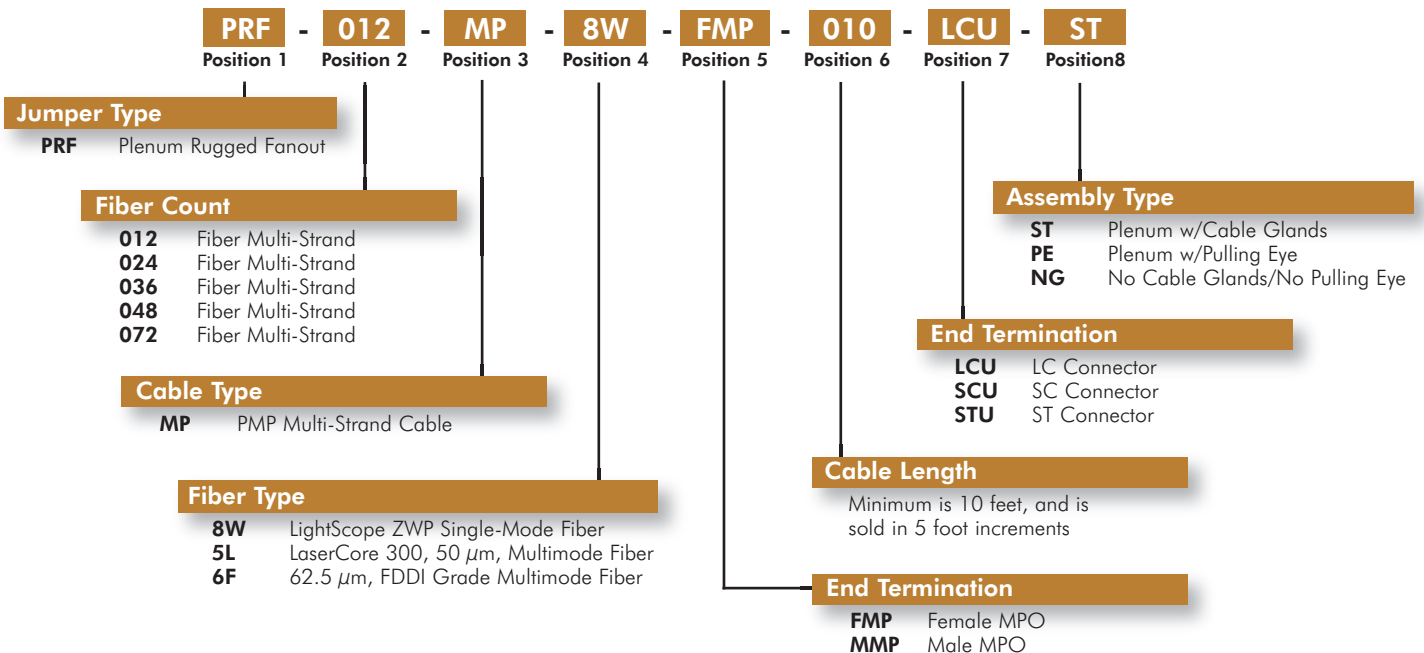
ReadyPATCH™ Equipment Cables



Plenum Array Cord (Product Code Configurator)



Plenum Rugged Fanout (Product Code Configurator)



ReadyPATCH™ Accessories



Grips

Catalog Number	Description
KIT-GRP-12-3/8	Reusable Pulling Grip Kits, 12 Fiber
KIT-GRP-24-3/8	Reusable Pulling Grip Kits, 24 Fiber
KIT-GRP-48/72-1/2	Reusable Pulling Grip Kits, 48 and 72 Fiber
KIT-GRP-96/144-1/2	Reusable Pulling Grip Kits, 96 and 144 Fiber

Cleaning Accessories

Catalog Number	Description
KIT-CLN-CLEAN/INSP	Cleaning and Inspection Kits, Fiber Optic Cleaning Kit Including Microscope and Adapter Tips
KIT-CLN-CLEAN	Cleaning and Inspection Kits, Fiber Optic Cleaning Kit Not Including Microscope
KIT-REFILL	Cleaning and Inspection Kits, Consumables Refill Kit

Mounting Brackets

Catalog Number	Description
RFE-RMB-6-3/8	Mounting Brackets, up to 6 cables with 3/8" fittings (12 and 24)
RFE-RMB-6-1/2	Mounting Brackets, up to 6 cables with 1/2" fittings (48, 72, 96, 144 cables or 12, 24, 48 armored cables)
RFE-RMB-5-3/4	Mounting Brackets, up to 5 cables with 3/4" fittings (72, 96, 144 armored cables)
RFE-BGND-12	Mounting Brackets, Grounding Strap Kit Used with armored cables
RFE-UMB	Universal Mounting Bracket, Bracket to mount up to 3 modules

F I B E R S O L U T I O N S

ReadyPATCH™ Solution
Assemblies/Terminated Cables
Pre-Terminated Shelves
Enclosures
Panels
Adapters
Connectors
Accessories
Closures
Tool Kits
Cables

Assemblies/Terminated Cables

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Fiber Patch Cords

Available Connectors

CommScope offers an extensive line of patch cords, pigtails and connectorized cables. They are available in a wide variety of connector types, cordage cable designs and lengths.

The connector types supported are shown on this page. While CommScope does not support MT-RJ connectivity, assemblies can be made with MT-RJ connectors on one end to attach to existing equipment.

Our quality cable and connector components, combined with precision connectorization assembly methods, provide the excellent transmission characteristics required to support state-of-the-art application requirements.

LC Keyed Connector

- Tamper Proof Design
- Colored Keyed for Connector to Adapter mating
- Small Form Factor (SFF) design for double the density of traditional connectors
- RJ-style latching mechanism
- 1.25 mm ferrule
- TIA/EIA/604-10 Compliant



MFC-LCU-09-KBL

LC Connector

- Small Form Factor (SFF) design for double the density of traditional connectors
- RJ-style latching mechanism
- 1.25 mm ferrule
- TIA/EIA/604-10 Compliant
- Available in Ultra polish LCU for Single-Mode and MultiMode
- Available in Angled polish LCA for Single-Mode only



SFC-LCR-16

SC Connector

- Push-pull latching mechanism with alignment key
- 2.5 mm ferrule
- TIA/EIA -604-3A Compliant
- Available in Ultra polish SCU for Single-Mode and MultiMode
- Available in Angled polish SCA for Single-Mode only



MFC-SCU-29

ST11 Connector

- Bayonet style coupling
- 2.5 mm ferrule
- TIA/EIA-604-2 Compliant
- Available in Ultra polish STU for Single-Mode and MultiMode



SFC-STU

FC Connector

- Threaded coupling nut with alignment key
- 2.5 mm ceramic ferrule
- TIA/EIA-604-4 Compliant
- Supplied as a pre-terminated connector only
- Available in Ultra polish FCU for Single-Mode and MultiMode
- Available in Angled polish FCA for Single-Mode only



SFC-FCU-29

MT-RJ Connector

- RJ-style latching mechanism
- 1.2mm ferrule
- Supplied as a pre-terminated connector only
- Assemblies may have one end with this connector to allow connectivity with existing equipment



MTRJ

Fiber Patch Cords

Standard, Keyed and Hybrid Patch Cords

CommScope offers an extensive line of patch cords, including LightScope ZWP, LaserCore 50 μ m, and 62.5 μ m FDDI grade fiber types. They are available in a wide variety of connector types both secure and un-secure, cordage cable designs and patch cord lengths. CommScope's fiber optic jumpers connect the patch panel/shelf to the equipment bay. Our quality cable and connector components, combined with precision connectorization assembly methods, provide the excellent transmission characteristics required to support state-of-the-art application requirements.

Features:

- High quality factory termination
- Variety of fiber types and connector types
- 100% optically tested with test data included
- Designed for multiple applications

Benefits:

- Lowest possible loss providing improved system performance
- Maintains optical contact under load (pullproof), and helps prevent accidental disconnects
- Reduces maintenance and ensures consistent optical performance

Patch Cords

Jumper Type		Fiber Count / Construction		Cord Outer Diameter		Fiber Type		Connector Type		Cord Length	
PFJ	Plenum Rated Fiber Jumper	01SP	Simplex Cord	16	1.6mm Standard for LC & MT-RJ	8W	LightScope ZWP Single-mode fiber	LC1	Red Keyed, LC	01	1 meter
RFJ	Riser Rated Fiber Jumper	02ZC	Zipcord	29	2.9mm Standard for SC, ST & FC	5L	LaserCore 300, 50 μ m, Multimode fiber	LC2	Yellow Keyed, LC	02	2 meters
						6F	62.5 μ m, FDDI Grade Multimode fiber	LC3	Blue Keyed, LC	03	3 meters
								LC4	Green Keyed, LC	04	4 meters
								LC5	Orange Keyed, LC	05	5 meters
								LC6	Slate Keyed, LC	10	10 meters
								LC7	Brown Keyed, LC	15	15 meters
								LC8	Aqua Keyed, LC	20	20 meters
								LC9	Rose Keyed, LC		
								LCV	Violet Keyed, LC		
								LCA	Angled, LC		
								LCU	Ultra, LC		
								SCA	Angled, SC		
								SCU	Ultra, SC		
								STU	Ultra, ST		
								FCA	Angled, FC		
								FCU	Ultra, FC		
								MJU	MT-RJ		

(Longer lengths are available)

Connector Type

LC1 Red Keyed, LC
LC2 Yellow Keyed, LC
LC3 Blue Keyed, LC
LC4 Green Keyed, LC
LC5 Orange Keyed, LC
LC6 Slate Keyed, LC
LC7 Brown Keyed, LC
LC8 Aqua Keyed, LC
LC9 Rose Keyed, LC
LCV Violet Keyed, LC
LCA Angled, LC
LCU Ultra, LC
SCA Angled, SC
SCU Ultra, SC
STU Ultra, ST
FCA Angled, FC
FCU Ultra, FC
MJU MT-RJ

Image 1: RFJ-01SP16-8W-LCU-01-LCU

Image 2: RFJ-02ZC16-5L-LC2-01-LCU

Image 3: RFJ-01SP29-8W-SCU-01-SCU

Note: Red, yellow, blue, and green are standard and provide a shorter lead time

* Not all combinations are available. Call for details.

Fiber Pigtails

Single-ended connectorized buffered fiber for use in splicing to building or outside plant cables. SM pigtails are yellow; 62.5 pigtails are orange and 50 μm pigtails are aqua.

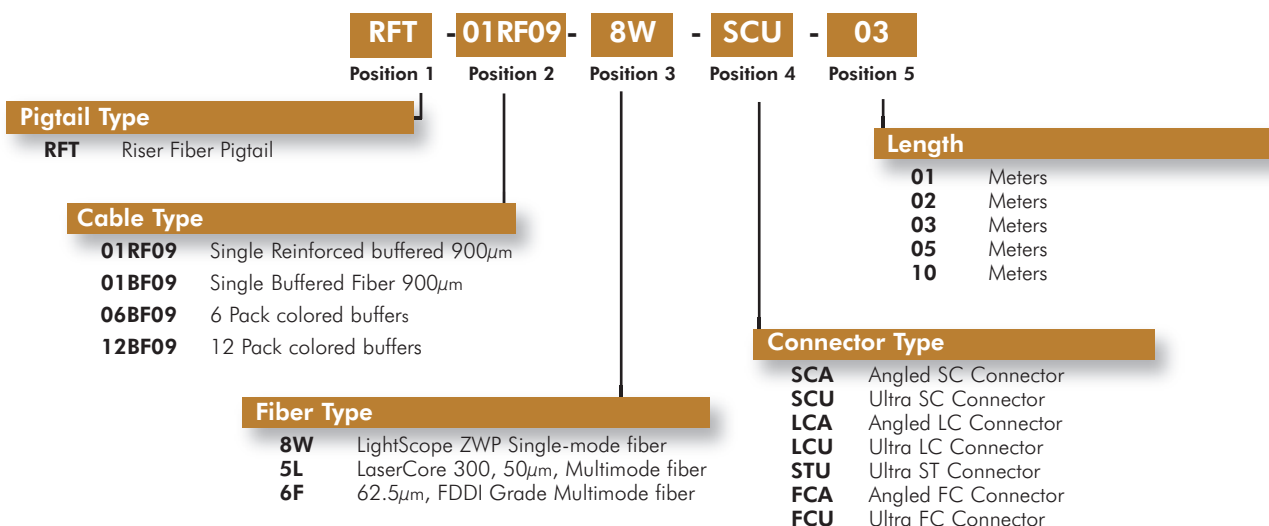


Fiber Pigtails - Packs of 12

Fiber packs come in standard lengths or 3 meters and are cut to lengths at the job site.



Catalog Number	Description
RFT-12BF09-5L-SCU-03	MM 50 μm LaserCore 300, colored buffer fiber 12 fibers SCU Simplex - 3 meter length
RFT-12BF09-6F-SCU-03	MM 62.5 μm FDDI Grade, colored buffer fiber 12 fibers SCU Simplex - 3 meter length
RFT-12BF09-8W-SCU-03	SM LightScope ZWP, colored buffer fiber 12 fibers SCU Simplex - 3 meter length
RFT-12BF09-8W-SCA-03	SM LightScope ZWP, colored buffer fiber 12 fibers SCA Simplex - 3 meter length
RFT-12BF09-5L-LCU-03	MM 50 μm LaserCore 300, colored buffer fiber 12 fibers LCU Simplex - 3 meter length
RFT-12BF09-6F-LCU-03	MM 62.5 μm FDDI Grade, colored buffer fiber 12 fibers LCU Simplex - 3 meter length
RFT-12BF09-8W-LCU-03	SM LightScope ZWP, colored buffer fiber 12 fibers LCU Simplex - 3 meter length
RFT-12BF09-8W-LCA-03	SM LightScope ZWP, colored buffer fiber 12 fibers LCA Simplex - 3 meter length
RFT-12BF09-5L-STU-03	MM 50 μm LaserCore 300, colored buffer fiber 12 fibers STU Simplex - 3 meter length
RFT-12BF09-6F-STU-03	MM 62.5 μm FDDI Grade, colored buffer fiber 12 fibers STU Simplex - 3 meter length
RFT-12BF09-8W-STU-03	SM LightScope ZWP, colored buffer fiber 12 fibers STU Simplex - 3 meter length



Not all combinations are available. Call for details.

Fiber Cable Assembly Selection Guide

Cable assemblies offer many advantages over field termination. With cable that is factory connectorized, overall installation time is faster and easier, field terminations are eliminated, and performance is assured through factory testing. Before accepting an order for cable assemblies, there are a few questions that need to be answered.

What type of cable does the application require?

Premise Tight Buffer (Riser or Plenum)
Indoor/Outdoor (Distribution or Loose Tube)
Outside Plant (Stranded Loose Tube or Central Loose Tube)

What type of connectors does the application require?

Single-mode (ST, SC, LC, FC)
Multimode (ST, SC, LC, FC)
Standard or Angle Polish

What is the length (tip-to-tip or enclosure-to-enclosure)?

If enclosure-to-enclosure, what is the standard break-out inside the enclosure?
See the picture below for the standard breakout.
Is the cable connectorized on one end or both?
*Remember to order enough extra length to leave some slack on each end for installation and future changes.

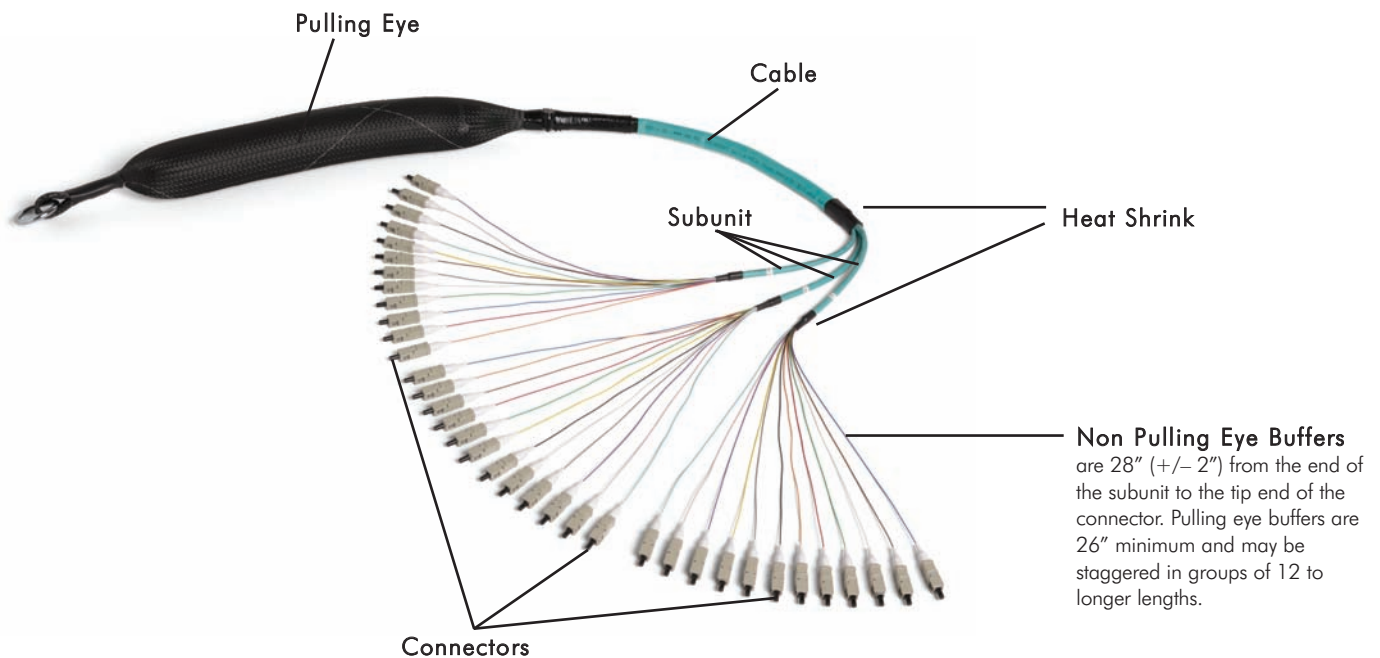
Is a pulling apparatus, such as a Pulling Eye, required?

A pulling apparatus is required if connectors are on both ends and the cable will be pulled.

Are there any special preparations, delivery, or packaging requirements?

Standard packaging includes a reel on assemblies longer than 250 feet. Reels can be requested on shorter lengths.

EXAMPLE



Fiber Cable Assembly Part Numbering Key



Sample Part Number

PFC	-	036	-	DS	-	5L	-	SCU	-	140	-	SCU	-	PE
Position 1		Position 2		Position 3		Position 4		Position 5		Position 6		Position 7		Position 8

Position 1: Cable Style

PFC - 036 - DS - 5L - SCU - 140 - SCU - PE

PFC Plenum Fiber Connectorized**RFC** Riser Fiber Connectorized**ZFC** Indoor/Outdoor Riser LSZH**OFC** Outside Fiber Connectorized**DFC** Outside Plant Dry Fiber Connectorized

Position 2: Fiber Count

PFC - 036 - DS - 5L - SCU - 140 - SCU - PE

Total Fiber Count (use standard fiber count as shown in fiber cable section)

Position 3: Cable Construction

PFC - 036 - DS - 5L - SCU - 140 - SCU - PE

Outside Plant Cable Constructions

LA Stranded Loose Tube Armored (Armored Cable must be bonded and grounded when entering a building)**LN** Stranded Loose Tube Non Armored All Dielectric**OD** Tight Buffer Outdoor

Indoor & Indoor/Outdoor Cable Constructions

DS Distribution**BO** Breakout**FiberGuard™** Use first character of the construction code above**Z** Aluminum Armor w/Jacket

Position 4: Fiber Type

PFC - 036 - DS - 5L - SCU - 140 - SCU - PE

8W 9.2 MFD LightScope ZWP®, single-mode**5K** 50µm, LaserCore® 500, multimode**5L** 50µm, LaserCore® 300, multimode**6F** 62.5/125µm FDDI Grade, multimode**5M** 50µm, LaserCore® 150, multimode

Position 5: Connector Type

PFC - 036 - DS - 5L - SCU - 140 - SCU - PE

FCA Angled FC connector(s)**LCU** Ultra LC connector(s)**STU** Ultra ST connector(s)**FCU** Ultra FC connector(s)**SCA** Angled SC connector(s)**LCA** Angled LC connector(s)**SCU** Ultra SC connector(s)

Position 6: Cable Length

PFC - 036 - DS - 5L - SCU - 140 - SCU - PE

Minimum is 10 feet, and is sold in 5 foot increments.

Maximum is cable construction length per reel.

Position 7: Connector Type

PFC - 036 - DS - 5L - SCU - 140 - SCU - PE

FCA Angled FC connector(s)**LCU** Ultra LC connector(s)**STU** Ultra ST connector(s)**FCU** Ultra FC connector(s)**SCA** Angled SC connector(s)**LCA** Angled LC connector(s)**SCU** Ultra SC connector(s)**MJU** Ultra MTRJ connector(s)

Positions 8: Pulling Apparatus

PFC - 036 - DS - 5L - SCU - 140 - SCU - PE

PE Pulling Eye

*Standard breakout length is 28 (+/- 2) inches.

*Not all combinations are available. Call for details.

F I B E R S O L U T I O N S

ReadyPATCH™ Solution
Assemblies/Terminated Cables
Pre-Terminated Shelves
Enclosures
Panels
Adapters
Connectors
Accessories
Closures
Tool Kits
Cables

Pre-Terminated Shelves

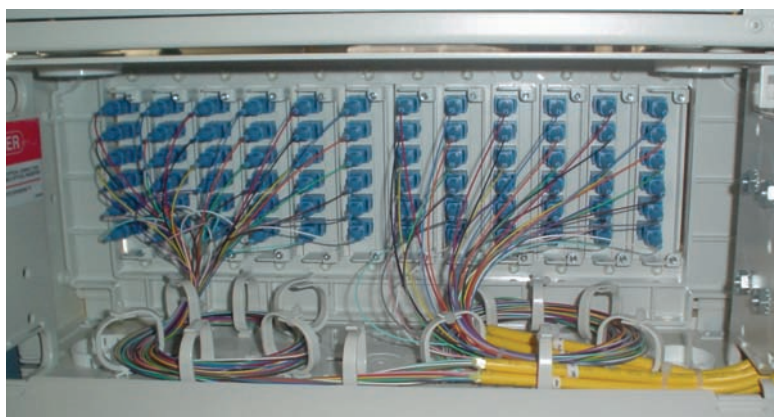
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Fiber Pre-Terminated Cable Shelf

CommScope offers pre-terminated fiber optic shelves with factory-terminated and tested cable assemblies pre-installed. Pre-terminated shelves eliminate the time consuming and costly process of terminating cables in the field; transferring this work to the factory where it can be completed under CommScope Quality Standards.

Features

- Factory terminated and tested
- Available in any combination of Uniprise shelf type, cable type, connector type and fiber count
- Lower total cost of ownership
- Decreases installation time; increased revenue
- Reduced amount of part numbers needed for installation
- Reduced amount of packaging material on site



Shown is the behind the wall connection (BTW) for an RFS-1D-072-DS-8W-SCU-100-PE.
(The total cable length and pulling eye are not shown)

Fiber Pre-Terminated Cable Shelf Part Numbering Key

Sample Part Number

RFS	-	1D	-	144	-	DS	-	8W	-	SCU	-	140	-	PE
Position 1		Position 2		Position 3		Position 4		Position 5		Position 6		Position 7		Position 8

Position 1: Cable Style RFS - 1D - 144 - DS - 8W - SCU - 140 - PE

PFS Plenum Fiber Cable Shelf
RFS Riser Fiber Cable Shelf
OFS Outside Fiber Cable Shelf
ZFS Indoor / Outdoor Riser LSZH

Position 2: Size and Number of Termination Shelves

RFS - **1D** - 144 - DS - 8W - SCU - 140 - PE

1st character is the number of shelves, second character is the size of the shelf.

A 1U	C 3U	E 5U
B 2U	D 4U	

Position 3: Fiber Count RFS - 1D - **144** - DS - 8W - SCU - 140 - PE

Total Fiber Count (in increments of two)
 *XXX variable in catalog number.

Position 4: Cable Construction RFS - 1D - 144 - **DS** - 8W - SCU - 140 - PE

Outside Plant Cable Constructions

LA Stranded Loose Tube Armored
LN Stranded Loose Tube Non Armored All Dielectric

Indoor & Indoor/Outdoor Cable Constructions

DS Distribution
DZ Distribution using FiberGuard Aluminum Armor w/Jacket

Position 5: Fiber Type RFS - 1D - 144 - DS - **8W** - SCU - 140 - PE

8W 9.2 MFD LightScope ZWP®, single-mode	5K 50µm, LaserCore® 500, multimode	5L 50µm, LaserCore® 300, multimode
6F 62.5/125µm FDDI Grade, multimode	5M 50µm, LaserCore® 150, multimode	

Position 6: Connector Type RFS - 1D - 144 - DS - 8W - **SCU** - 140 - PE

LCU Ultra LC connector(s)	LCA Angled LC connector(s)	SCU Ultra SC connector(s)	SCA Angled SC connector(s)
STU Ultra ST connector(s)	FCU Ultra FC connector(s)	FCA Angled FC connector(s)	

Position 7: Cable Length RFS - 1D - 144 - DS - 8W - SCU - **140** - PE

Minimum is 10 feet.
 Maximum is cable construction length per reel.

Position 8: Pulling Apparatus RFS - 1D - 144 - DS - 8W - SCU - 140 - **PE**

PE Pulling Eye

Uniprise

Copper

Pre-Terminated Shelves

Coax

Multi-Conductor

Conduit

Packaging

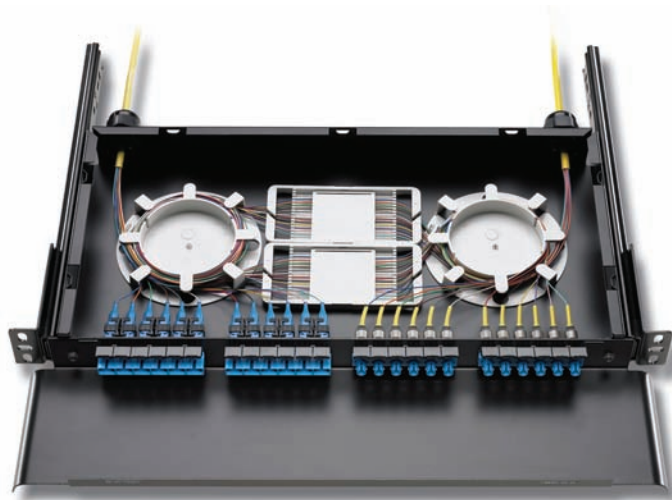
Glossary/Index

Pre-Terminated Pigtail Shelf

CommScope offers fiber optic shelves pre-terminated with factory polished and tested fiber optic pigtails installed. Pre-terminated shelves eliminate the time consuming and costly process of terminating cables in the field; transferring this work to the factory where it can be completed under stringent quality standards. The shelves arrive on the job site ready to be mounted in place and spliced onto the fiber cable plant.

Features

- Factory terminated and tested
- Available in any combination of Uniprise shelf type, connector type and fiber count
- Lower total cost of ownership
- Decreases installation time; increased revenue
- Reduced amount of part numbers needed for installation
- Reduced amount of packaging material on site



Pre-Terminated Pigtail Shelf Numbering Key



The enclosure facilitates easy and fast network builds by providing a convenient means for quick splicing and terminating. Includes:

- Adapters
- Panels
- Splice shelves
- Fiber Pigtailed, 900 μ m
- Assemblies
- Preterminated and pretested shelves
- On-Frame splicing
- Fits 19", 23" and ETSI frames

RFE-4D/1D-288-8W-SCU-PT09



Sample Part Number (For a High Density Application)

RFE	-	4D/1D	-	288	-	8W	-	SC06	-	PT09
Position 1		Position 2	Position 3	Position 4		Position 5		Position 6		Position 7

Position 1: Enclosure Type RFE - 4D/1D - 288 - 8W - SC06 - PT09

RFE Rack Mount Fiber Combination Enclosure

Position 2: Size and Number of Termination Shelves

RFE - 4D/1D - 288 - 8W - SC06 - PT09

1st character is the number of shelves, second character is the size of the shelf.

C	3U	E	5U
D	4U		

Position 3: Size and Number of Splice Shelves

RFE - 4D/1D - 288 - 8W - SC06 - PT09

1st character is the number of shelves, second character is the size of the shelf.

C	3U	E	5U
D	4U		

Position 4: Port Count

RFE - 4D/1D - 288 - 8W - SC06 - PT09

XXX Number of Ports

Position 5: Fiber Type

RFE - 4D/1D - 288 - 8W - SC06 - PT09

8W	9.2 MFD LightScope ZWP®, single-mode	5K	50 μ m, LaserCore® 500, multimode	5L	50 μ m, LaserCore® 300, multimode
6F	62.5/125 μ m FDDI Grade, multimode	5M	50 μ m, LaserCore® 150, multimode		

Position 6: Adapter Type in Termination Shelves

RFE - 4D/1D - 288 - 8W - SC06 - PT09

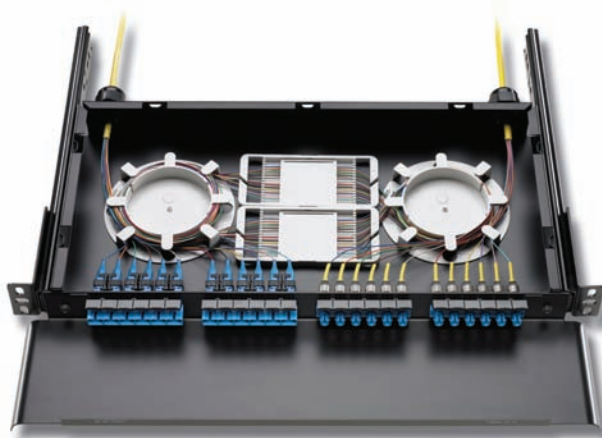
SC	Ultra SC connector(s)	SCA	Angled SC connector(s)	FC	Ultra FC connector(s)	01	Simplex
LC	Ultra LC connector(s)	LCA	Angled LC connector(s)	FCA	Angled FC connector(s)	02	Duplex
ST	Ultra ST connector(s)					06	Ganged ST or SC
						12	Ganged LC

Position 7: Cable/Pigtail Type RFE - 4D/1D - 288 - 8W - SC06 - PT09

DSXX	Distribution, XX = fiber count - Riser Cable Only
PT09	Pigtail, 900 μ m Buffer

Fiber Combination Enclosure

Lower density 1U and 2U combination shelves can also be assembled with adapters and pigtails



Sample Part Number

RFE - SLG - 024 - 8W - SC06/1U - PT09

Position 1 Position 2 Position 3 Position 4 Position 5 Position 6 Position 7

Position 1: Enclosure Type RFE - SLG - 024 - 8W - SC06/1U - PT09

RFE Rack Mount Fiber Combination Enclosure

Position 2: Type of Shelf RFE - SLG - 024 - 8W - SC06/1U - PT09

FXG Fixed Shelf for Ganged Adapters
SLG Sliding Shelf for Ganged Adapters
SLD Internal Sliding Shelf

Position 3: Port Count RFE - SLG - 024 - 8W - SC06/1U - PT09

XXX Number of Ports

Position 4: Fiber Type RFE - SLG - 024 - 8W - SC06/1U - PT09

8W 9.2 MFD LightScope ZWP®, single-mode
6F 62.5/125μm FDDI Grade, multimode

5K 50μm, LaserCore® 500, multimode
5M 50μm, LaserCore® 150, multimode

5L 50μm, LaserCore® 300, multimode

Position 5: Adapter Type RFE - SLG - 024 - 8W - SC06/1U - PT09

SC Ultra SC connector(s)
LC Ultra LC connector(s)
ST Ultra ST connector(s)

SCA Angled SC connector(s)
LCA Angled LC connector(s)

FC Ultra FC connector(s)
FCA Angled FC connector(s)

01 Simplex
02 Duplex
06 Ganged ST or SC
12 Ganged LC

Position 6: Shelf Size RFE - SLG - 024 - 8W - SC06/1U - PT09

1U Height
2U Height

Position 7: Cable/Pigtail Type RFE - SLG - 024 - 8W - SC06/1U - PT09

PT09 Pigtail, 900μm Buffer

F I B E R S O L U T I O N S

ReadyPATCH™ Solution
Assemblies/Terminated Cables
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Fiber Entrance Enclosures

A CommScope Building Entrance Enclosure provides transition from outside plant cable to building cable. Various splice and cable capacities are available.



WBE-FXS-EMT/36T-SE



WBE-FXC-048



WBE-FXC-024

Building Entrance Splice Enclosure and Splice Trays

Catalog Number	Description
WBE-FXS-EMT/18T-SE	Wall Mount Building Entrance, Side Entry, up to 864 splices using 18 SPT-FXS-SFS
WBE-FXS-EMT/18T-TE	Wall Mount Building Entrance, Top/Bottom Entry, up to 864 splices using 18 SPT-FXS-SFS
WBE-FXS-EMT/36T-SE	Wall Mount Building Entrance, Side Entry, up to 1728 splices using 36 SPT-FXS-SFS
WBE-FXS-EMT/36T-TE	Wall Mount Building Entrance, Top/Bottom Entry, up to 1728 splices using 36 SPT-FXS-SFS
WBE-FXS-TABLE-LARGE	Optional work table for WBE-FXS-EMT/XX-YY OCEFs
WBE-FXS-GG	Wall Mount Building Entrance, Large Plate with one Grommet for cable size 0.748" to 1.00"
WBE-FXS-KIT-GRG-.2/.7	Wall Mount Building Entrance, (2) Cable Grommets .236" to .708"
WBE-FXS-KIT-GRG-.7/1.0	Wall Mount Building Entrance, (2) Cable Grommets .748" to 1.00"
SPT-FXS-MFS	Mass Fusion Splice Tray for WBE-FXS, Holds 18 Splices
SPT-FXS-SFS	Single Fusion Splice Tray for WBE-FXS, Holds 48 Splices
SPT-FXS-MES	Mechanical Fusion Splice Tray for WBE-FXS, Holds 36 Splices

Building Entrance Termination and Splice Enclosures

WBE-FXC-024-GY-NR3*	Wall Mount Building Entrance, for terminations and splices, uses 4 RFE/4U panels, cabinet size: 17" x 12.6" x 5.25"
WBE-FXC-048-WH*	Wall Mount Building Entrance, for terminations and splices, uses 8 RFE/4U panels, cabinet size: 17" x 10" x 6"
SPT-FXS-MES-HLD	Supplemental Mechanical Splices Holders/Organizers - Pack of 10
SPT-FXS-MFS-HLD	Supplemental Mass Fusion Splice Holders/Organizers - Pack of 10
SPT-FXS-SFS-HLD	Supplemental Single Fusion Splice Holders/Organizers - Pack of 10
SFS-SLEEVE	Single Fusion Splice Sleeves - Pack of 50

*See Fiber Panel Section for ordering panels. Uses RFE/4U size panels.

NOTE: Splicing in a box will reduce the maximum number of terminations.

Code	Description
WFE	Wall Mount Fiber Enclosure
WBE	Wall Mount Building Entrance Enclosure
FXS	Fixed Fiber Splicing
FXC	Combination Termination and Splicing
GRG	Grip and Grommet Kit
SPT	Splice Tray
SFS	Single Fusion Splice
MES	Mechanical Splice
MFS	Mass Fusion Splice

Wall Mount Fiber Enclosures

The Uniprise Wallmount Fiber Enclosure is used for a combination of splicing and termination of fiber optic building cable or outside plant (OSP) cables. The enclosure can be used for combined termination and splicing for up to 96 fibers depending on adapter type and configuration and the enclosure can be configured for multiple adapter applications. Locking tabs for both sides of the box are included.

The boxes are wall-mounted enclosures that are designed to accommodate terminations of up to 48 ST, SC or 96 LC fibers. The enclosures can also be used as splice units to store 96 Single Fusion Splices, 72 Mechanical Splices with the addition of the appropriate splice holders. The overall dimensions of the shelf are 11 inches (279 mm) high, 13 inches (330 mm) wide, and 3.7 inches (94 mm) deep.

Catalog Number	Descriptions
WBE-EMT/8P-GANG	Holds up to eight snap-in ganged adapters (See ganged adapter page)
WBE-EMT/4P-PNL	Holds up to four 4U type adapter and keyed adapter panels (See fiber panel section. Uses RFE/4U size panels)
Splice Tray Clips	
SPT-FXS-SFS-CLP/3P	Splice Tray Clip with 3 holders for Single Fusion Splicing, 48 Splices
SPT-FXS-MES-CLP/3P	Splice Tray Clip with 3 holders for Mechanical Fusion Splicing, 36 Splices
SPT-FXS-SFS-CLP/6P	Splice Tray Clip with 6 holders for Single Fusion Splicing, 96 Splices
SPT-FXS-MES-CLP/6P	Splice Tray Clip with 6 holders for Mechanical Fusion Splicing, 72 Splices



WBE-EMT/8P-GANG



WBE-EMT/4P-PNL

Fiber Enclosures Wall Mounted

Commscope offers several wall mount fiber closures that can be used individually for low fiber count cables or grouped together for large fiber count cables. The enclosures are available with preinstalled adapters in many different combinations. The WFE-EMT-XX/2P wall mount fiber enclosures are 8.75" high x 7.5" wide x 3" deep and can hold 2 adapter panels or up to 12 mechanical or 16 single fusion splices. The WFE-EMT-XX/4P wall mount fiber enclosures are 8.75" high x 7.5" wide x 4" deep and can hold 4 adapter panels or up to 24 mechanical or 32 single fusion splices. Panels and splice kits are sold separately. Enclosures can also be supplied pre-loaded with panels. Fiber management is available in separate optional parts.



WFE-024-MFA-LC12-BK/2P



WFE-048-SFA-LC12-BK/4P

Catalog Number	Description
Wall Mount Enclosures	
WFE-EMT-BK/2P	Enclosure with 2 empty spaces for WFE-PNL adapter panels, black
WFE-EMT-WH/2P	Enclosure with 2 empty spaces for WFE-PNL adapter panels, white
Preloaded 2 Panel Enclosures	
WFE-012-MFA-SC06-BK/2P-AQ	Enclosure with 2 ganged adapter panels, black, 12 Aqua Multimode SC ports
WFE-012-MFA-SC06-BK/2P	Enclosure with 2 ganged adapter panels, black, 12 Multimode SC ports
WFE-012-SFA-SC06-BK/2P	Enclosure with 2 ganged adapter panels, black, 12 Single-mode SC ports
WFE-012-MFA-ST06-BK/2P-AQ	Enclosure with 2 ganged adapter panels, black, 12 Aqua Multimode ST ports
WFE-012-MFA-ST06-BK/2P	Enclosure with 2 ganged adapter panels, black, 12 Multimode ST ports
WFE-012-SFA-ST06-BK/2P	Enclosure with 2 ganged adapter panels, black, 12 Single-mode ST ports
WFE-024-MFA-LC12-BK/2P-AQ	Enclosure with 2 ganged adapter panels, black, 24 Aqua Multimode LC ports
WFE-024-MFA-LC12-BK/2P	Enclosure with 2 ganged adapter panels, black, 24 Multimode LC ports
WFE-024-SFA-LC12-BK/2P	Enclosure with 2 ganged adapter panels, black, 24 Single-mode LC ports
Wall Mount Enclosures	
WFE-EMT-BK/4P	Enclosure with 4 empty spaces for WFE-PNL adapter panels, black
WFE-EMT-WH/4P	Enclosure with 4 empty spaces for WFE-PNL adapter panels, white
Preloaded 4 Panel Enclosures	
WFE-024-MFA-SC06-BK/4P-AQ	Enclosure with 4 ganged adapter panels, black, 24 Aqua Multimode SC ports
WFE-024-MFA-SC06-BK/4P	Enclosure with 4 ganged adapter panels, black, 24 Multimode SC ports
WFE-024-SFA-SC06-BK/4P	Enclosure with 4 ganged adapter panels, black, 24 Single-mode SC ports
WFE-024-MFA-ST06-BK/4P-AQ	Enclosure with 4 ganged adapter panels, black, 24 Aqua Multimode ST ports
WFE-024-MFA-ST06-BK/4P	Enclosure with 4 ganged adapter panels, black, 24 Multimode ST ports
WFE-024-SFA-ST06-BK/4P	Enclosure with 4 ganged adapter panels, black, 24 Single-mode ST ports
WFE-048-MFA-LC12-BK/4P-AQ	Enclosure with 4 ganged adapter panels, black, 48 Aqua Multimode LC ports
WFE-048-MFA-LC12-BK/4P	Enclosure with 4 ganged adapter panels, black, 48 Multimode LC ports
WFE-048-SFA-LC12-BK/4P	Enclosure with 4 ganged adapter panels, black, 48 Single-mode LC ports

See WFE Fiber Panel Section for ordering adapter and keyed adapter panels for empty boxes

Fiber Enclosures Rack Mounted

CommScope offers several fiber management shelves, including splice, jumper management, termination and combination shelves. CommScope offers shelves with preinstalled adapters in many different combinations.



RFE-SLG-EMT/1U



RFE-FXG-EMT/1U

The RFE-FXG shelves are 1.75" high, 17.2" wide and 8" deep. The front trough on the RFE-SLG shelves have the same dimensions as the RFE-FXG, however the slides extend another 4" on the rear of the shelf and the trough extends another 4" on the front. Each shelf can hold 48 single fusion splices when used with optional splice holder packs. The RFE-SLG shelves come with an integral front trough for jumper management. A jumper trough is available for the RFE-FXG as a separate optional part. Shelves come with three blank inserts

Catalog Number	Description
Fixed Shelves	
RFE-FXG-EMT/1U	Empty Fixed Shelf for Ganged Adapters
RFE-FXG-024-MFA-SC06-AQ	Shelf with Ganged Adapter Panels, 24 Aqua Multimode SC Ports
RFE-FXG-024-MFA-SC06	Shelf with Ganged Adapter Panels, 24 Multimode SC Ports
RFE-FXG-024-SFA-SC06	Shelf with Ganged Adapter Panels, 24 Single-mode SC Ports
RFE-FXG-024-MFA-ST06-AQ	Shelf with Ganged Adapter Panels, 24 Aqua Multimode ST Ports
RFE-FXG-024-MFA-ST06	Shelf with Ganged Adapter Panels, 24 Multimode ST Ports
RFE-FXG-024-SFA-ST06	Shelf with Ganged Adapter Panels, 24 Single-mode ST Ports
RFE-FXG-048-MFA-LC12-AQ	Shelf with Ganged Adapter Panels, 48 Aqua Multimode LC Ports
RFE-FXG-048-MFA-LC12	Shelf with Ganged Adapter Panels, 48 Multimode LC Ports
RFE-FXG-048-SFA-LC12	Shelf with Ganged Adapter Panels, 48 Single-mode LC Ports
Sliding Shelves	
RFE-SLG-EMT/1U	Empty Sliding Shelf for Ganged Adapters
RFE-SLG-024-MFA-SC06-AQ	Shelf with Ganged Adapter Panels, 24 Aqua Multimode SC Ports
RFE-SLG-024-MFA-SC06	Shelf with Ganged Adapter Panels, 24 Multimode SC Ports
RFE-SLG-024-SFA-SC06	Shelf with Ganged Adapter Panels, 24 Single-mode SC Ports
RFE-SLG-024-MFA-ST06-AQ	Shelf with Ganged Adapter Panels, 24 Aqua Multimode ST Ports
RFE-SLG-024-MFA-ST06	Shelf with Ganged Adapter Panels, 24 Multimode ST Ports
RFE-SLG-024-SFA-ST06	Shelf with Ganged Adapter Panels, 24 Single-mode ST Ports
RFE-SLG-048-MFA-LC12-AQ	Shelf with Ganged Adapter Panels, 48 Aqua Multimode LC Ports
RFE-SLG-048-MFA-LC12	Shelf with Ganged Adapter Panels, 48 Multimode LC Ports
RFE-SLG-048-SFA-LC12	Shelf with Ganged Adapter Panels, 48 Single-mode LC Ports
Accessories	
SPT-FXS-SFS-HLD/1U	Single Fusion Splice Holders/Organizers - Pack of 2, Up to 32 splices
SPT-FXS-SFS-BRACKET/3P	Bracket includes 3 single fusion splice holders for 48 splices
RFE-EMT-FACEPLATE/1U	Faceplate with no trough for 1U shelves
RFE-EMT-TROUGH/1U	Faceplate and trough for 1U shelves
RFE-BKT-23	Frame Mount Kit for 1U shelves to 23" shelf
RFE-BKT-ETSI	Frame Mount Kit for 1U shelves to International ETSI

See Ganged Adapters in Adapter Section for ordering panels for empty shelves.

Fiber Enclosures Rack Mounted

The RFE-FXG/2U and RFE-SLG/2U are frame-mounted, fixed and sliding position shelves that are designed to accommodate up to 96 LC, 48 ST or 48 SC adapters. The shelves can also be used as splice units to store up to 96 Single Fusion Splices, 72 Mechanical Splices or 36 Mass Fusion Splices with the addition of the appropriate splice holders. The overall dimensions of the shelves are 3.5 inches (88mm) high, 17.2 inches (437mm) wide, and 8 inches (203mm) deep and requires 2 rack unit height.



RFE-SLG-EMT/2U



RFE-FXG-EMT/2U

Catalog Number	Description
Fixed Shelves	
RFE-FXG-EMT/2U	Empty 2U Fixed Shelf for Ganged Adapters
RFE-FXG-048-MFA-SC06/2U-AQ	Shelf with 8 - 6 port MM SC Aqua Ganged Adapters (48 total)
RFE-FXG-048-MFA-SC06/2U	Shelf with 8 - 6 port MM SC Beige Ganged Adapters (48 total)
RFE-FXG-048-SFA-SC06/2U	Shelf with 8 - 6 port SM SC Blue Ganged Adapters (48 total)
RFE-FXG-048-MFA-ST06/2U-AQ	Shelf with 8 - 6 port MM ST Aqua Ganged Adapters (48 total)
RFE-FXG-048-MFA-ST06/2U	Shelf with 8 - 6 port MM ST Beige Ganged Adapters (48 total)
RFE-FXG-048-SFA-ST06/2U	Shelf with 8 - 6 port SM ST Blue Ganged Adapters (48 total)
RFE-FXG-096-MFA-LC12/2U-AQ	Shelf with 8 - 12 port MM LC Aqua Ganged Adapters (96 total)
RFE-FXG-096-MFA-LC12/2U	Shelf with 8 - 12 port MM LC Beige Ganged Adapters (96 total)
RFE-FXG-096-SFA-LC12/2U	Shelf with 8 - 12 port SM LC Blue Ganged Adapters (96 total)
Sliding Shelves	
RFE-SLG-EMT/2U	Empty 2U Sliding Shelf for Ganged Adapters
RFE-SLG-048-MFA-SC06/2U-AQ	Shelf with 8 - 6 port MM SC Aqua Ganged Adapters (48 total)
RFE-SLG-048-MFA-SC06/2U	Shelf with 8 - 6 port MM SC Beige Ganged Adapters (48 total)
RFE-SLG-048-SFA-SC06/2U	Shelf with 8 - 6 port SM SC Blue Ganged Adapters (48 total)
RFE-SLG-048-MFA-ST06/2U-AQ	Shelf with 8 - 6 port MM ST Aqua Ganged Adapters (48 total)
RFE-SLG-048-MFA-ST06/2U	Shelf with 8 - 6 port MM ST Beige Ganged Adapters (48 total)
RFE-SLG-048-SFA-ST06/2U	Shelf with 8 - 6 port SM ST Blue Ganged Adapters (48 total)
RFE-SLG-096-MFA-LC12/2U-AQ	Shelf with 8 - 12 port MM LC Aqua Ganged Adapters (96 total)
RFE-SLG-096-MFA-LC12/2U	Shelf with 8 - 12 port MM LC Beige Ganged Adapters (96 total)
RFE-SLG-096-SFA-LC12/2U	Shelf with 8 - 12 port SM LC Blue Ganged Adapters (96 total)
Accessories	
SPT-FXS-SFS-BRACKET/3P	Bracket, includes 3 Single Fusion Splice Holders for 48 splices
SPT-FXS-MES-BRACKET/3P	Bracket, includes 3 Mechanical Fusion Splice Holders for 36 splices
SPT-FXS-MFS-BRACKET/3P	Bracket, includes 3 Mass Fusion Splice Holders for 18 splices
SPT-FXS-SFS-BRACKET/6P	Bracket, includes 6 Single Fusion Splice Holders for 96 splices
SPT-FXS-MES-BRACKET/6P	Bracket, includes 6 Mechanical Fusion Splice Holders for 72 splices
SPT-FXS-MFS-BRACKET/6P	Bracket, includes 6 Mass Fusion Splice Holders for 36 splices
RFE-PNL-GANG-BLANK-5-PACK	Blank panel for 1U/2U ganged adapter slots, 5 pack

See Ganged Adapters in Adapter Section for ordering panels.

2U Sliding Shelf - Internal Sliding Shelf

The Uniprise 2U Internal Sliding Shelf is used for a combination of splicing and termination of fiber-optic building cable or outside plant (OSP) cables. The shelf can be used for up to 144 direct terminations or up to 96 splice terminations depending on adapter type and shelf configuration. The internal main floor assembly slides forward and rearward for terminating access. The overall dimensions of the shelf are 3.5 inches (8.98 cm) high, 17.0 inches (43.2 cm) wide, and 12 inches (30.5 cm) deep and requires 2 rack unit height. The shelf can also be used as a splice unit to store 96 Single Fusion Splices, 72 Mechanical Splices with the addition of the appropriate splice holders.

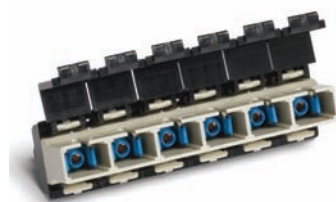
* The splice plate is required when splicing in the shelf



RFE-SLC-EMT-BK/2U-GANG

Catalog Number	Description
RFE-SLC-EMT-BK/2U-GANG	Empty Shelf Designed for 8 Ganged Adapters or 6 or 12 Keyed LC Duplex Adapter Panels (See ganged adapter page)
RFE-SLC-EMT-BK/2U-PNL	Empty Shelf Designed for 6 Panel Adapters (See fiber panel section. Uses RFE/4U size panels)
SPT-FXS-SFS-CLP/3P	Splice Tray Clip with 3 holders for Single Fusion Splicing, 48 Splices
SPT-FXS-MES-CLP/3P	Splice Tray Clip with 3 holders for Mechanical Fusion Splicing, 36 Splices
SPT-FXS-SFS-CLP/6P	Splice Tray Clip with 6 holders for Single Fusion Splicing, 96 Splices
SPT-FXS-MES-CLP/6P	Splice Tray Clip with 6 holders for Mechanical Fusion Splicing, 72 Splices
SPT-PLATE-A	Used to elevate Splice Clip for Buffer Routing (Required when splicing in the shelf)

Ganged Adapters



MFA-SC06-BG

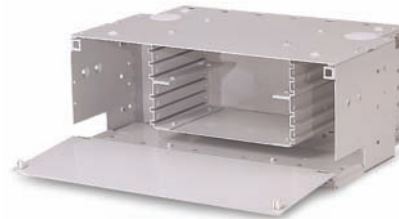
Catalog Number	Description
AFA-LC12-GR	Ganged Adapter Panel with 12 Green LC Angled Ports
AFA-LC12-GR-10	Ganged Adapter Panel with 12 Green LC Angled Ports - 10 Pack
SFA-LC12-BL	Ganged Adapter Panel with 12 Blue LC Single-mode Ports
SFA-LC12-BL-10	Ganged Adapter Panel with 12 Blue LC Single-mode Ports - 10 Pack
MFA-LC12-AQ	Ganged Adapter Panel with 12 Aqua LC Multimode Ports
MFA-LC12-AQ-10	Ganged Adapter Panel with 12 Aqua LC Multimode Ports - 10 Pack
MFA-LC12-BG	Ganged Adapter Panel with 12 Beige LC Multimode Ports
MFA-LC12-BG-10	Ganged Adapter Panel with 12 Beige LC Multimode Ports - 10 Pack
AFA-SC06-GR	Ganged Adapter Panel with 6 Green SC Angled Ports
AFA-SC06-GR-10	Ganged Adapter Panel with 6 Green SC Angled Ports - 10 Pack
SFA-SC06-BL	Ganged Adapter Panel with 6 Blue SC Single-mode Ports
SFA-SC06-BL-10	Ganged Adapter Panel with 6 Blue SC Single-mode Ports - 10 Pack
MFA-SC06-AQ	Ganged Adapter Panel with 6 Aqua SC Multimode Ports
MFA-SC06-AQ-10	Ganged Adapter Panel with 6 Aqua SC Multimode Ports - 10 Pack
MFA-SC06-BG	Ganged Adapter Panel with 6 Beige SC Multimode Ports
MFA-SC06-BG-10	Ganged Adapter Panel with 6 Beige SC Multimode Ports - 10 Pack
SFA-ST06-BL	Ganged Adapter Panel with 6 Blue ST Single-mode Ports
SFA-ST06-BL-10	Ganged Adapter Panel with 6 Blue ST Single-mode Ports - 10 Pack
MFA-ST06-AQ	Ganged Adapter Panel with 6 Aqua ST Multimode Ports
MFA-ST06-AQ-10	Ganged Adapter Panel with 6 Aqua ST Multimode Ports - 10 Pack
MFA-ST06-BG	Ganged Adapter Panel with 6 Beige ST Multimode Ports
MFA-ST06-BG-10	Ganged Adapter Panel with 6 Beige ST Multimode Ports - 10 Pack
MFA-ST/SC06-BG	MM ST/SC (In/Out) simplex/duplex ganged adapter, snap-in, Beige
MFA-ST/SC06-AQ	MM ST/SC (In/Out) simplex/duplex ganged adapter, snap-in, Aqua
SFA-ST/SC06-BL	SM ST/SC (In/Out) simplex/duplex ganged adapter, snap-in, Blue
MFA-SC/ST06-BG	MM SC/ST (In/Out) simplex/duplex ganged adapter, snap-in, Beige
MFA-SC/ST06-AQ	MM SC/ST (In/Out) simplex/duplex ganged adapter, snap-in, Aqua
SFA-SC/ST06-BL	SM SC/ST (In/Out) simplex/duplex ganged adapter, snap-in, Blue

Fiber Enclosures Rack Mounted

CommScope offers several fiber management shelves, including splice, jumper management, termination and combination shelves. CommScope also offers shelves with preinstalled adapter panels and splice trays. See next page for Pre-Loaded Distribution Shelves.



RFE-FXD-EMT-BK/4U



RFE-FXS-EMT-WH/4U

Rack Mounted Catalog Number	Terminations	Splices	Dimensions	Description
RFE-FXD-EMT-BK/4U RFE-FXD-EMT-WH/4U	Up to 288 LC Up to 144 SC Up to 96 ST	None	7"h X 17"w X 11"d 4U rack space	7" shelf for fiber termination, panels ordered separately
RFE-FXD-EMT-BK/5U RFE-FXD-EMT-WH/5U	Up to 288 LC Up to 144 SC Up to 144 ST	None	9"h X 17"w X 11"d 5U rack space	9" shelf for fiber termination, panels ordered separately
Splice Shelves Catalog Number	Terminations	Splices	Dimensions	Description
RFE-FXS-EMT-WH/3U RFE-FXS-EMT-BK/3U	None	144 single 108 mechanical	5"h X 17"w X 11"d 3U rack space	5" splice for mechanical or single fusion
Splice Shelves Catalog Number	Terminations	Splices	Dimensions	Description
RFE-FXS-EMT-WH/4U RFE-FXS-EMT-BK/4U	None	288 single 216 mechanical	7"h X 17"w X 11"d 4U rack space	7" splice for mechanical or single fusion
Combination Shelves Catalog Number	Terminations	Splices	Dimensions	Description
RFE-FXC-EMT-WH/3U RFE-FXC-EMT-BK/3U	Up to 96 LC Up to 48 SC Up to 48 ST	48 single 36 mechanical	5"h X 17"w X 11"d 3U rack space	rack mount, fixed combination, mechanical or single fusion
RFE-FXC-EMT-WH/7U RFE-FXC-EMT-BK/7U	Up to 288 LC Up to 144 SC Up to 144 ST	144 single 108 mechanical	12"h X 17"w X 11"d 7U rack space	rack mount, fixed combination, mechanical or single fusion
Front Access Catalog Number	Terminations	Splices	Dimensions	Description
RFE-SLD-EMT-WH/4U RFE-SLD-EMT-BK/4U	Up to 288 LC Up to 144 SC Up to 144 ST	None	7"h X 17"w X 11"d 4U rack space	7" internal sliding shelf for fiber termination

See page 142 for ordering adapter panels. Splice trays and panels ordered separately.

Code	Description
RFE	Rack Mounted Fiber Enclosure
FXD	Fixed Distribution
FXS	Fixed Fiber Splicing
FXC	Combination Termination and Splicing
SLD	Sliding Distribution
3U	3U Rack units, each rack unit is 5.25" high
4U	4U Rack units, each rack unit is 7.00" high
5U	5U Rack units, each rack unit is 8.75" high

Fiber Enclosures Rack Mounted Pre-Loaded



Catalog Number	Description
Pre Loaded Distribution Shelves	
RFE-FXD-048-MFA-SC06-BK/4U	Rack Mounted Termination Shelf, 7"/4U, w/8 MM SC ganged adapter panels (48 port) & 4 blank panels, black
RFE-FXD-048-MFA-ST06-BK/4U	Rack Mounted Termination Shelf, 7"/4U, w/8 MM ST ganged adapter panels (48 port) & 4 blank panels, black
RFE-FXD-048-SFA-SC06-BK/4U	Rack Mounted Termination Shelf, 7"/4U, w/8 SM SC ganged adapter panels (48 port) & 4 blank panels, black
RFE-FXD-048-SFA-ST06-BK/4U	Rack Mounted Termination Shelf, 7"/4U, w/8 SM ST ganged adapter panels (48 port) & 4 blank panels, black
RFE-FXD-072-MFA-SC06-BK/4U	Rack Mounted Termination Shelf, 7"/4U, with 12 ganged MM SC adapter panels (72 port), black
RFE-FXD-072-MFA-SC06-WH/4U	Rack Mounted Termination Shelf, 7"/4U, with 12 ganged MM SC adapter panels (72 port), white
RFE-FXD-072-MFA-ST06-BK/4U	Rack Mounted Termination Shelf, 7"/4U, with 12 ganged MM ST adapter panels (72 port), black
RFE-FXD-072-MFA-ST06-WH/4U	Rack Mounted Termination Shelf, 7"/4U, with 12 ganged MM ST adapter panels (72 port), white
RFE-FXD-072-SFA-SC06-BK/4U	Rack Mounted Termination Shelf, 7"/4U, with 12 ganged SM SC adapter panels (72 port), black
RFE-FXD-072-SFA-SC06-WH/4U	Rack Mounted Termination Shelf, 7"/4U, with 12 ganged SM SC adapter panels (72 port), white
RFE-FXD-072-SFA-ST06-BK/4U	Rack Mounted Termination Shelf, 7"/4U, with 12 ganged SM ST adapter panels (72 port), black
RFE-FXD-072-SFA-ST06-WH/4U	Rack Mounted Termination Shelf, 7"/4U, with 12 ganged SM ST adapter panels (72 port), white
RFE-FXD-096-MFA-SC01-BK/4U	Rack Mounted Termination Shelf, 7"/4U, with 12 simplex 8 port MM SC adapter panels (96 port), black
RFE-FXD-096-MFA-SC01-WH/4U	Rack Mounted Termination Shelf, 7"/4U, with 12 simplex 8 port MM SC adapter panels (96 port), white
RFE-FXD-096-MFA-ST01-BK/4U	Rack Mounted Termination Shelf, 7"/4U, with 12 simplex 8 port MM ST adapter panels (96 port), black
RFE-FXD-096-MFA-ST01-WH/4U	Rack Mounted Termination Shelf, 7"/4U, with 12 simplex 8 port MM ST adapter panels (96 port), white
RFE-FXD-096-SFA-SC01-BK/4U	Rack Mounted Termination Shelf, 7"/4U, with 12 simplex 8 port SM SC adapter panels (96 port), black
RFE-FXD-096-SFA-SC01-WH/4U	Rack Mounted Termination Shelf, 7"/4U, with 12 simplex 8 port SM SC adapter panels (96 port), white
RFE-FXD-096-SFA-ST01-BK/4U	Rack Mounted Termination Shelf, 7"/4U, with 12 simplex 8 port SM ST adapter panels (96 port), black
RFE-FXD-096-SFA-ST01-WH/4U	Rack Mounted Termination Shelf, 7"/4U, with 12 simplex 8 port SM ST adapter panels (96 port), white
RFE-FXD-144-MFA-SC02-BK/4U	Rack Mounted Termination Shelf, 7"/4U with 12 MM SC Duplex, high density adapter panels, black
RFE-FXD-144-MFA-SC02-BK/4U-AQ	Rack Mounted Termination Shelf, 7"/4U with 12 MM Aqua SC Duplex, high density adapter panels, black
RFE-FXD-144-SFA-SC02-BK/4U	Rack Mounted Termination Shelf, 7"/4U with 12 SM Blue SC Duplex, high density adapter panels, black
RFE-FXD-144-MFA-LC12-BK/4U	Rack Mounted Termination Shelf, 7"/4U, with 12 MM LC ganged adapter panels (144 port), black
RFE-FXD-144-MFA-LC12-BK/4U-AQ	Rack Mounted Termination Shelf, 7"/4U, with 12 MM Aqua LC ganged adapter panels (144 port), black
RFE-FXD-144-SFA-LC12-BK/4U	Rack Mounted Termination Shelf, 7"/4U, with 12 SM LC ganged adapter panels (144 port), black
Pre Loaded Splice Shelves	
RFE-FXS-144-SFS-WH/3U	Rack Mount Splice Shelf 5"/3U, includes 3 Single Fusion Splice Trays for up to 144 splices, white
RFE-FXS-144-SFS-BK/3U	Rack Mounted Splice Shelf 5"/3U, includes 3 Single Fusion Splice Trays for up to 144 splices, black
RFE-FXS-288-SFS-WH/4U	Rack Mount Splice Shelf 7"/4U, includes 6 Single Fusion Splice Trays for up to 288 splices, white
RFE-FXS-288-SFS-BK/4U	Rack Mounted Splice Shelf 7"/4U, includes 6 Single Fusion Splice Trays for up to 288 splices, black

MM = Multimode SM = Single-mode

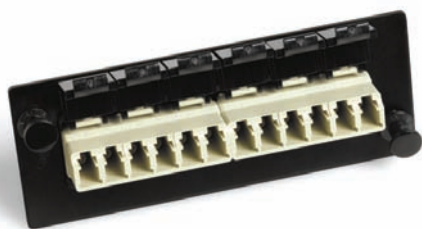
F I B E R S O L U T I O N S

ReadyPATCH™ Solution
Assemblies/Terminated Cables
Pre-Terminated Shelves
Enclosures
Panels
Adapters
Connectors
Accessories
Closures
Tool Kits
Cables

Fiber Panels

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Fiber Splitter Modules	146

WFE Fiber Panels Wall Mounted



WFE-PNL-012-MFA-LC12-BK-BG



WFE-PNL-006-SFA-SC06-BK-BL

CommScope panels for wall mount enclosures come in SC, ST, LC and FC configurations. Any combination of adapter panels can be used in the enclosures, up to the maximum number of openings.

Catalog Number	Description
Wall Mount Adapter Panels	
WFE-PNL-006-SFA-FC01-WH	Panel, white, with 6 simplex SM FC adapters
Ganged Adapter Panels	
WFE-PNL-006-MFA-SC06-BK-AQ	Panel, black, with a 6 port ganged aqua MM SC adapter
WFE-PNL-006-MFA-SC06-BK-BG	Panel, black, with a 6 port ganged MM SC adapter
WFE-PNL-006-MFA-SC06-WH-AQ	Panel, white, with a 6 port ganged aqua MM SC adapter
WFE-PNL-006-MFA-SC06-WH-BG	Panel, white, with a 6 port ganged MM SC adapter
WFE-PNL-006-SFA-SC06-BK-BL	Panel, black, with a 6 port ganged SM SC adapter
WFE-PNL-006-SFA-SC06-WH-BL	Panel, white, with a 6 port ganged SM SC adapter
WFE-PNL-006-MFA-ST06-BK-AQ	Panel, black, with a 6 port ganged aqua MM ST adapter
WFE-PNL-006-MFA-ST06-BK-BG	Panel, black, with a 6 port ganged MM ST adapter
WFE-PNL-006-MFA-ST06-WH-AQ	Panel, white, with a 6 port ganged aqua MM ST adapter
WFE-PNL-006-MFA-ST06-WH-BG	Panel, white, with a 6 port ganged MM ST adapter
WFE-PNL-006-SFA-ST06-BK-BL	Panel, black, with a 6 port ganged SM ST adapter
WFE-PNL-006-SFA-ST06-WH-BL	Panel, white, with a 6 port ganged SM ST adapter
WFE-PNL-012-MFA-LC12-BK-AQ	Panel, black, with 12 port ganged aqua MM LC adapter
WFE-PNL-012-MFA-LC12-BK-BG	Panel, black, with ganged MM LC adapter
WFE-PNL-012-MFA-LC12-WH-AQ	Panel, white, with ganged aqua MM LC adapter
WFE-PNL-012-MFA-LC12-WH-BG	Panel, white, with ganged MM LC adapter
WFE-PNL-012-SFA-LC12-BK-BL	Panel, black, with ganged SM LC adapter
WFE-PNL-012-SFA-LC12-WH-BL	Panel, white, with ganged SM LC adapter

Catalog Number	Description
Wall Mount Keyed Adapter Panels	
WFE-PNL-012-HFA-LC02-BK-KXX	Panel, Black, for WFE Wall Mounted Boxes, with 6 Duplex SM/MM KEYED LC adapters, Colored Key

Color Codes for XX

Product	Color
BL	Blue
GR	Green
RD	Red
YL	Yellow
OR	Orange
AQ	Aqua
RO	Rose
BR	Brown
SL	Slate
VI	Violet

Catalog Number	Description
Blank Panels	
WFE-PNL-BLANK-WH	Panel, Solid/Blank, Single Unit, White
WFE-PNL-BLANK-BK	Panel, Solid/Blank, Single Unit, Black
Splices & Splice Holders	
SFS-SLEEVE	Single Fusion Splice sleeves package of 50
SPT-FXS-MES-HLD	Mechanical Splice Holders/Organizers Pack of 10
SPT-FXS-MFS-HLD	Mass Fusion Splice Holders/Organizers Pack of 12
SPT-FXS-SFS-HLD	Single Fusion Splice Holders/Organizers Pack of 10
Wall Mount Enclosures Accessories	
WFE-ADT-RFE-ZZ	Adapter to mount a wall mount unit on a rack
WFE-WMH-4D-ZZ	Horizontal trough to protect jumpers used with WFE/2P
WFE-WMH-5D-ZZ	Horizontal trough to protect jumpers used with WFE/4P
WFE-WMT-ZZ	Channel jumper protection
WFE-WMV-2D-ZZ	Vertical trough to protect jumpers used with WFE/2P
WFE-WMV-3D-DR-ZZ	Vertical trough with door to protect jumpers used with WFE/2P
WFE-WMV-3D-ZZ	Vertical trough to protect jumpers used with WFE/4P
WFE-WMV-4D-DR-ZZ	Vertical trough with door to protect jumpers used with WFE/4P

ZZ: BK = Black WH = White

RFE Fiber Panels Rack Mounted



RFE-PNL-012-MFA-LC12-BK/4U-AQ



RFE-PNL-006-SFA-SC06-BK/4U



RFE-PNL-006-MFA-ST06-BK/4U

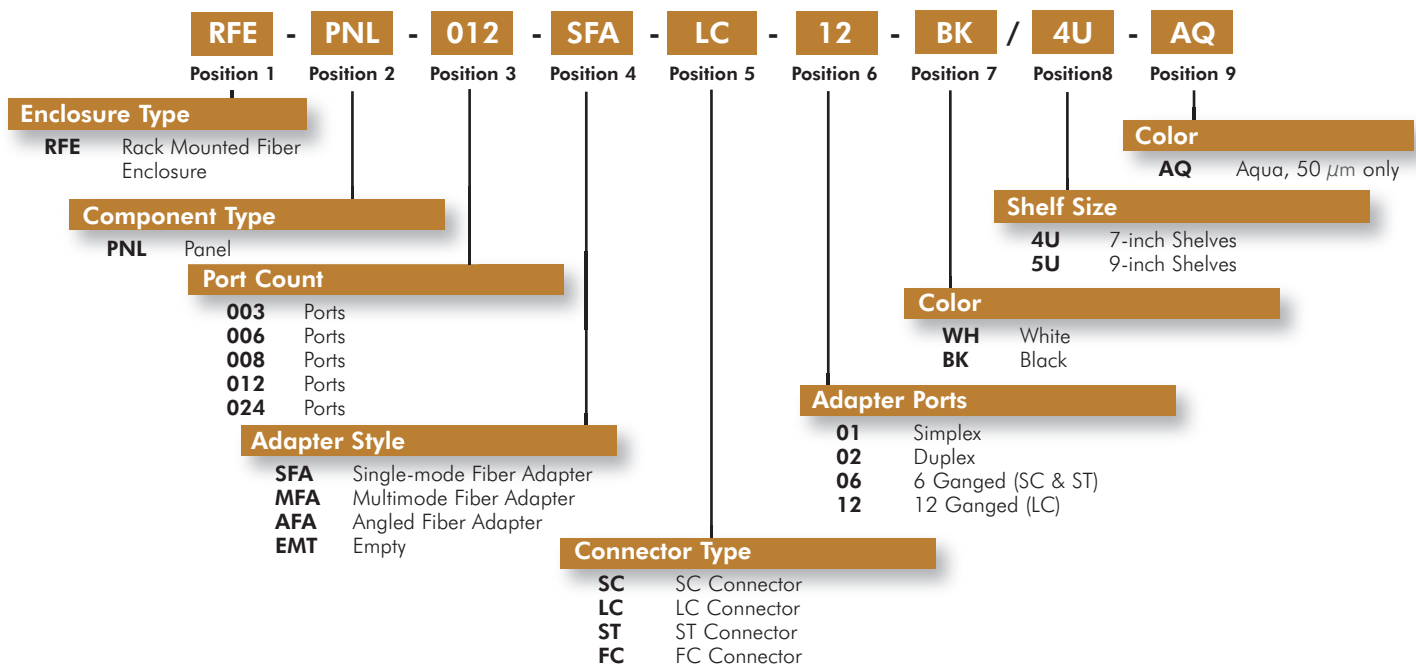
Panels for 3U and 4U Shelves and WBE Boxes

Catalog Number	Description
RFE-PNL-003-EMT-SC02-WH/4U	Panel, White, for RFE-FX 3U/4U Rack Mounted Shelves, empty panel for 3 duplex SC adapters (6 ports)
RFE-PNL-003-MFA-SC02-WH/4U	Panel, White, for RFE-FX 3U/4U Rack Mounted Shelves, with 3 duplex MM SC adapters (6 ports)
RFE-PNL-003-SFA-SC02-WH/4U	Panel, White, for RFE-FX 3U/4U Rack Mounted Shelves, with 3 duplex SM SC adapters (6 ports)
RFE-PNL-006-AFA-SC01-WH/4U	Panel, White, for RFE-FX 3U/4U Rack Mounted Shelves, with 6 simplex Angled SC adapters
RFE-PNL-006-EMT-FC01-WH/4U	Panel, White, for RFE-FX 3U/4U Rack Mounted Shelves, empty panel for 6 simplex FC adapters
RFE-PNL-006-EMT-SC01-WH/4U	Panel, White, for RFE-FX 3U/4U Rack Mounted Shelves, empty panel for 6 simplex SC adapters
RFE-PNL-006-EMT-SC01-WH/4U-12	Panel, White, for RFE-FX 3U/4U Rack Mounted Shelves, empty panel for 6 simplex SC adapters, 12 pack
RFE-PNL-006-EMT-ST01-WH/4U	Panel, White, for RFE-FX 3U/4U Rack Mounted Shelves, empty panel for 6 simplex ST adapters
RFE-PNL-006-EMT-ST01-WH/4U-12	Panel, White, for RFE-FX 3U/4U Rack Mounted Shelves, empty panel for 6 simplex ST adapters, 12 pack
RFE-PNL-006-MFA-SC06-BK/4U	Panel, Black, for RFE-FX 3U/4U Rack Mounted Shelves, with a 6 port ganged MM SC adapter
RFE-PNL-006-MFA-SC06-BK/4U-AQ	Panel, Black, for RFE-FX 3U/4U Rack Mounted Shelves, with a 6 port ganged Aqua SC adapter
RFE-PNL-006-MFA-SC06-WH/4U	Panel, White, for RFE-FX 3U/4U Rack Mounted Shelves, with a 6 port ganged MM SC adapter
RFE-PNL-006-MFA-SC06-WH/4U-AQ	Panel, White, for RFE-FX 3U/4U Rack Mounted Shelves, with a 6 port ganged Aqua SC adapter
RFE-PNL-006-MFA-ST01-WH/4U	Panel, White, for RFE-FX 3U/4U Rack Mounted Shelves, with 6 simplex MM ST adapters
RFE-PNL-006-MFA-ST06-BK/4U	Panel, Black, for RFE-FX 3U/4U Rack Mounted Shelves, with a 6 port ganged MM ST adapter
RFE-PNL-006-MFA-ST06-BK/4U-AQ	Panel, Black, for RFE-FX 3U/4U Rack Mounted Shelves, with a 6 port ganged Aqua ST adapter
RFE-PNL-006-MFA-ST06-WH/4U	Panel, White, for RFE-FX 3U/4U Rack Mounted Shelves, with a 6 port ganged MM ST adapter

*Need 12 panels to fully load the FXD or 4U and 5U enclosures. Use blank panels to fill empty slots.

**See Enclosures Section to order Rack Mounted Fiber Enclosures.

Not all combinations are available, not all panels are shown.



RFE Fiber Panels Rack Mounted

Panels for 3U and 4U Shelves and WBE Boxes

Catalog Number	Description
RFE-PNL-006-MFA-ST06-WH/4U-AQ	Panel, White, for RFE-FX 3U/4U Rack Mounted Shelves, with a 6 port ganged Aqua ST adapter
RFE-PNL-006-SFA-FC01-WH/4U	Panel, White, for RFE-FX 3U/4U Rack Mounted Shelves, with 6 simplex SM FC adapters
RFE-PNL-006-SFA-SC01-WH/4U	Panel, White, for RFE-FX 3U/4U Rack Mounted Shelves, with 6 simplex SM SC adapters
RFE-PNL-006-SFA-SC06-BK/4U	Panel, Black, for RFE-FX 3U/4U Rack Mounted Shelves, with a 6 port ganged SM SC adapter
RFE-PNL-006-SFA-SC06-WH/4U	Panel, White, for RFE-FX 3U/4U Rack Mounted Shelves, with a 6 port ganged SM SC adapter
RFE-PNL-006-SFA-ST01-WH/4U	Panel, White, for RFE-FX 3U/4U Rack Mounted Shelves, with 6 simplex SM ST adapters
RFE-PNL-006-SFA-ST06-BK/4U	Panel, Black, for RFE-FX 3U/4U Rack Mounted Shelves, with a 6 port ganged SM ST adapter
RFE-PNL-006-SFA-ST06-WH/4U	Panel, White, for RFE-FX 3U/4U Rack Mounted Shelves, with a 6 port ganged SM ST adapter
RFE-PNL-008-AFA-SC01-BK/4U	Panel, Black, for use in items designed for 4U panels, with 8 simplex Angled SC adapters
RFE-PNL-008-AFA-SC01-WH/4U	Panel, White, for use in items designed for 4U panels, with 8 simplex Angled SC adapters
RFE-PNL-008-MFA-SC01-BK/4U	Panel, Black, for use in items designed for 4U panels, with 8 simplex SM SC adapters
RFE-PNL-008-MFA-SC01-WH/4U	Panel, White, for use in items designed for 4U panels, with 8 simplex SM SC adapters
RFE-PNL-008-MFA-ST01-BK/4U	Panel, Black, for use in items designed for 4U panels, with 8 simplex MM ST adapters
RFE-PNL-008-MFA-ST01-WH/4U	Panel, White, for use in items designed for 4U panels, with 8 simplex MM ST adapters
RFE-PNL-008-SFA-SC01-BK/4U	Panel, Black, for use in items designed for 4U panels, with 8 simplex SM SC adapters
RFE-PNL-008-SFA-SC01-WH/4U	Panel, White, for use in items designed for 4U panels, with 8 simplex SM SC adapters
RFE-PNL-008-SFA-ST01-BK/4U	Panel, Black, for use in items designed for 4U panels, with 8 simplex SM ST adapters
RFE-PNL-008-SFA-ST01-WH/4U	Panel, White, for use in items designed for 4U panels, with 8 simplex SM ST adapters
RFE-PNL-006-AFA-LC01-WH/4U	Panel, White, for RFE-FX 3U/4U Rack Mounted Shelves, with 6 angled simplex LC adapters
RFE-PNL-012-EMT-LC02-WH/4U	Panel, White, for RFE-FX 3U/4U Rack Mounted Shelves, empty Panel for 6 duplex LC adapters
RFE-PNL-012-MFA-LC12-BK/4U	Panel, Black, for RFE-FX 3U/4U Rack Mounted Shelves, with a 12 port ganged MM LC adapter
RFE-PNL-012-MFA-LC12-BK/4U-AQ	Panel, Black, for RFE-FX 3U/4U Rack Mounted Shelves, with a 12 port ganged Aqua LC adapter
RFE-PNL-012-MFA-LC12-WH/4U	Panel, White, for RFE-FX 3U/4U Rack Mounted Shelves, with a 12 port ganged MM LC adapter
RFE-PNL-012-MFA-LC12-WH/4U-AQ	Panel, White, for RFE-FX 3U/4U Rack Mounted Shelves, with a 12 port ganged Aqua LC adapter
RFE-PNL-012-SFA-LC01-WH/4U	Panel, White, for RFE-FX 3U/4U Rack Mounted Shelves, with 12 simplex SM LC adapters
RFE-PNL-012-SFA-LC12-BK/4U	Panel, Black, for RFE-FX 3U/4U Rack Mounted Shelves, with a 12 port ganged SM LC adapter
RFE-PNL-012-SFA-LC12-WH/4U	Panel, White, for RFE-FX 3U/4U Rack Mounted Shelves, with a 12 port ganged SM LC adapter
RFE-PNL-012-HFA-LC02/4U-KXX	Panel, Black, for Rack Mounted Shelves, with 6 Duplex KEYED LC adapters (Refer to the Adapter Section for available colors)

*Need 12 panels to fully load the FXD or 4U and 5U enclosures. Use blank panels to fill empty slots.

**See Enclosures Section to order Rack Mounted Fiber Enclosures.

High Density Panels for 3U and 4U Shelves and WBE Boxes

Catalog Number	Description
RFE-PNL-012-AFA-SC01-BK/4U	Panel, Black, for RFE-FX 3U/4U Rack Mounted Shelves, with 12 Simplex Angled SM low Profile SC adapters
RFE-PNL-012-AFA-SC01-WH/4U	Panel, White, for RFE-FX 3U/4U Rack Mounted Shelves, with 12 Simplex Angled SM low Profile SC adapters
RFE-PNL-012-MFA-SC01-BK/4U	Panel, Black, for RFE-FX 3U/4U Rack Mounted Shelves, with 12 Simplex MM low Profile SC adapters
RFE-PNL-012-MFA-SC01-WH/4U	Panel, White, for RFE-FX 3U/4U Rack Mounted Shelves, with 12 Simplex MM low Profile SC adapters
RFE-PNL-012-MFA-SC01-BK/4U-AQ	Panel, Black, for RFE-FX 3U/4U Rack Mounted Shelves, with 12 Simplex MM AQ low Profile SC adapters
RFE-PNL-012-MFA-SC01-WH/4U-AQ	Panel, White, for RFE-FX 3U/4U Rack Mounted Shelves, with 12 Simplex MM AQ low Profile SC adapters
RFE-PNL-012-SFA-SC01-BK/4U	Panel, Black, for RFE-FX 3U/4U Rack Mounted Shelves, with 12 Simplex SM low Profile SC adapters
RFE-PNL-012-SFA-SC01-WH/4U	Panel, White, for RFE-FX 3U/4U Rack Mounted Shelves, with 12 Simplex SM low Profile SC adapters
RFE-PNL-012-MFA-SC02-BK/4U	Panel, Black, for RFE-FX 3U/4U Rack Mounted Shelves, with 6 duplex MM SC adapters
RFE-PNL-012-MFA-SC02-BK/4U-AQ	Panel, Black, for RFE-FX 3U/4U Rack Mounted Shelves, with 6 duplex Aqua SC adapters
RFE-PNL-012-SFA-SC02-BK/4U	Panel, Black, for RFE-FX 3U/4U Rack Mounted Shelves, with 6 duplex SM SC adapters
RFE-PNL-024-MFA-LC02-BK/4U	Panel, Black, for RFE-FX 3U/4U Rack Mounted Shelves, with 12 Duplex MM low Profile LC adapters
RFE-PNL-024-MFA-LC02-WH/4U	Panel, White, for RFE-FX 3U/4U Rack Mounted Shelves, with 12 Duplex MM low Profile LC adapters
RFE-PNL-024-MFA-LC02-BK/4U-AQ	Panel, Black, for RFE-FX 3U/4U Rack Mounted Shelves, with 12 Duplex Aqua low Profile LC adapters
RFE-PNL-024-MFA-LC02-WH/4U-AQ	Panel, White, for RFE-FX 3U/4U Rack Mounted Shelves, with 12 Duplex Aqua low Profile LC adapters
RFE-PNL-024-SFA-LC02-BK/4U	Panel, Black, for RFE-FX 3U/4U Rack Mounted Shelves, with 12 Duplex SM low Profile LC adapters
RFE-PNL-024-SFA-LC02-WH/4U	Panel, White, for RFE-FX 3U/4U Rack Mounted Shelves, with 12 Duplex SM low Profile LC adapters
RFE-PNL-024-HFA-LC02/4U-KXX	Panel, Black, for Rack Mounted Shelves, with 12 Duplex KEYED LC adapters (Refer to the Adapter Section for available colors)

*Need 12 panels to fully load the FXD or 4U and 5U enclosures. Use blank panels to fill empty slots.

**See Enclosures Section to order Rack Mounted Fiber Enclosures.

RFE Fiber Panels Rack Mounted

Panels for 5U Shelves

Catalog Number	Description
RFE-PNL-012-EMT-SC01-BK/5U	Panel, Black, for RFE-FX 5U Rack Mounted Shelves, empty Panel for 12 simplex SC adapters
RFE-PNL-012-EMT-SC01-WH/5U	Panel, White, for RFE-FX 5U Rack Mounted Shelves, empty Panel for 12 simplex SC adapters
RFE-PNL-024-EMT-SC02-BK/5U	Panel, Black, for RFE-FX 5U Rack Mounted Shelves, empty Panel for 12 duplex SC adapters, double wide
RFE-PNL-024-EMT-SC02-WH/5U	Panel, White, for RFE-FX 5U Rack Mounted Shelves, empty Panel for 12 duplex SC adapters, double wide
RFE-PNL-012-EMT-ST01-BK/5U	Panel, Black, for RFE-FX 5U Rack Mounted Shelves, empty Panel for 12 simplex ST adapters
RFE-PNL-012-EMT-ST01-WH/5U	Panel, White, for RFE-FX 5U Rack Mounted Shelves, empty Panel for 12 simplex ST adapters
RFE-PNL-024-MFA-SC02-BK/5U	Panel, Black, for RFE-FX 5U Rack Mounted Shelves, with 12 duplex Multimode SC adapters, double wide
RFE-PNL-024-MFA-SC02-WH/5U	Panel, White, for RFE-FX 5U Rack Mounted Shelves, with 12 duplex Multimode SC adapters, double wide
RFE-PNL-012-MFA-ST01-BK/5U	Panel, Black, for RFE-FX 5U Rack Mounted Shelves, with 12 simplex MM ST adapters
RFE-PNL-012-MFA-ST01-WH/5U	Panel, White, for RFE-FX 5U Rack Mounted Shelves, with 12 simplex MM ST adapters
RFE-PNL-012-SFA-SC01-BK/5U	Panel, Black, for RFE-FX 5U Rack Mounted Shelves, with 12 simplex SM SC adapters
RFE-PNL-012-SFA-SC01-WH/5U	Panel, White, for RFE-FX 5U Rack Mounted Shelves, with 12 simplex SM SC adapters
RFE-PNL-012-SFA-ST01-BK/5U	Panel, Black, for RFE-FX 5U Rack Mounted Shelves, with 12 simplex SM ST adapters
RFE-PNL-012-SFA-ST01-WH/5U	Panel, White, for RFE-FX 5U Rack Mounted Shelves, with 12 simplex SM ST adapters
RFE-PNL-018-EMT-LC02-BK/5U	Panel, Black, for RFE-FX 5U Rack Mounted Shelves, empty Panel for 9 duplex LC adapters
RFE-PNL-018-EMT-LC02-WH/5U	Panel, White, for RFE-FX 5U Rack Mounted Shelves, empty Panel for 9 duplex LC adapters
RFE-PNL-024-SFA-LC02-BK/5U	Panel, Black, for RFE-FX 5U Rack Mounted Shelves, with 12 duplex SM LC adapters
RFE-PNL-024-SFA-LC02-WH/5U	Panel, White, for RFE-FX 5U Rack Mounted Shelves, with 12 duplex SM LC adapters
RFE-PNL-024-SFA-SC02-BK/5U	Panel, Black, for RFE-FX 5U Rack Mounted Shelves, with 12 duplex SM SC adapters, double wide
RFE-PNL-024-SFA-SC02-WH/5U	Panel, White, for RFE-FX 5U Rack Mounted Shelves, with 12 duplex SM SC adapters, double wide

*Need 12 panels to fully load the FXD or 4U and 5U enclosures. Use blank panels to fill empty slots.

**See Enclosures Section to order Rack Mounted Fiber Enclosures.

Double wide panels use 2 panel spaces.

Blank Panels

Catalog Number	Description
RFE-PNL-BLANK-WH/4U-6-PACK	Panel, pack of 6 blank/solid panels for RFE-FX 3U/4U Rack Mounted Shelves - White
RFE-PNL-BLANK-BK/4U-6-PACK	Panel, pack of 6 blank/solid panels for RFE-FX 3U/4U Rack Mounted Shelves - Black
RFE-PNL-BLANK-WH/4U	Panel, single blank/solid panels for RFE-FX 3U/4U Rack Mounted Shelves - White
RFE-PNL-BLANK-BK/4U	Panel, single blank/solid panels for RFE-FX 3U/4U Rack Mounted Shelves - Black
RFE-PNL-BLANK-WH/5U-6-PACK	Panel, pack of 6 blank/solid panels for RFE-FX 5U Rack Mounted Shelves - White
RFE-PNL-BLANK-BK/5U-6-PACK	Panel, pack of 6 blank/solid panels for RFE-FX 5U Rack Mounted Shelves - Black

*Need 12 panels to fully load the FXD or 4U and 5U enclosures. Use blank panels to fill empty slots.

**See Enclosures Section to order Rack Mounted Fiber Enclosures.

Splice Trays

Catalog Number	Description
SPT-FXS-SFS	Single Fusion Splice Tray - 48 Splices
SPT-FXS-MES	Mechanical Fusion Splice Tray - 36 Splices

Splice Holders

Catalog Number	Description
SPT-FXS-MES-HLD	Supplemental Mechanical Splice Holders/Organizers - Pack of 10
SPT-FXS-SFS-HLD	Supplemental Single Splice Holders/Organizers - Pack of 10
SFS-SLEEVE	Single Fusion Splice Sleeves - Pack of 50

Uniprise

Copper

Fiber Panels

Coax

Multi-Conductor

Conduit

Packaging

Glossary/Index

Fiber Splitter Modules

Splitter, Dual Band 1310, 1550 1X2



RFE-SPL-1X3-BAL-SCA1

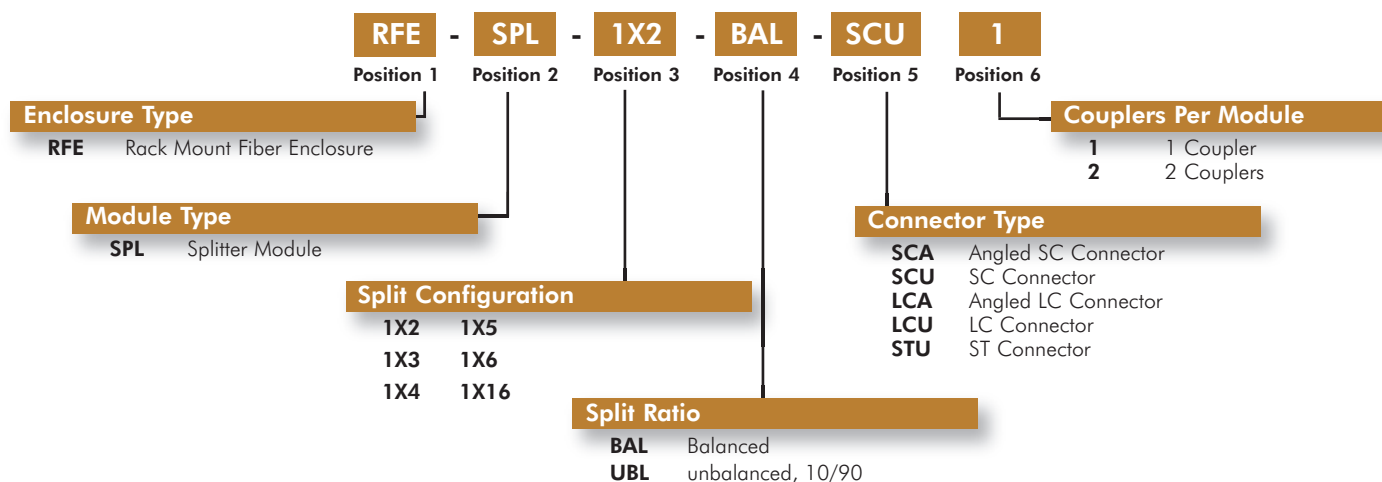
Catalog Number	Power Output Ratio %	Adapter On Module	Couplers/Pkg
RFE-SPL-1X2-UBL-SCU1	10/90	SCU	1
RFE-SPL-1X2-UBL-SCA1	10/90	SCA	1
RFE-SPL-1X2-UBL-LCA1	10/90	LCA	1
RFE-SPL-1X2-BAL-SCU1	50/50	SCU	1
RFE-SPL-1X2-BAL-SCA1	50/50	SCA	1
RFE-SPL-1X2-BAL-LCA1	50/50	LCA	1
RFE-SPL-1X2-UBL-STU2	10/90	STU	2
RFE-SPL-1X2-BAL-STU2	50/50	STU	2
RFE-SPL-1X3-BAL-SCU1	33/33/33	SCU	1
RFE-SPL-1X3-BAL-SCA1	33/33/33	SCA	1
RFE-SPL-1X3-BAL-LCA1	33/33/33	LCA	1

Splitter, Dual Band 1310, 1550 1X4

RFE-SPL-1X4-BAL-SCU1	33/33/33	SCU	1
RFE-SPL-1X4-BAL-SCA1	33/33/33	SCA	1
RFE-SPL-1X4-BAL-LCA1	33/33/33	LCA	1

*Order Separately

Inside plant splitter modules shown above. Other modules can be made available.



F I B E R S O L U T I O N S

ReadyPATCH™ Solution
Assemblies/Terminated Cables
Pre-Terminated Shelves
Enclosures
Panels
Adapters
Connectors
Accessories
Closures
Tool Kits
Cables

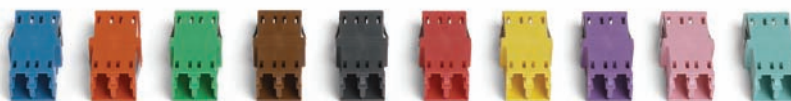
Adapters

Keyed Fiber LC Adapters	150
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Fiber ST Adapters	155

Keyed Fiber LC Adapters

Small Form-Factor Adapters with Excellent Optical and Mechanical Performance

KEYED LC ADAPTERS

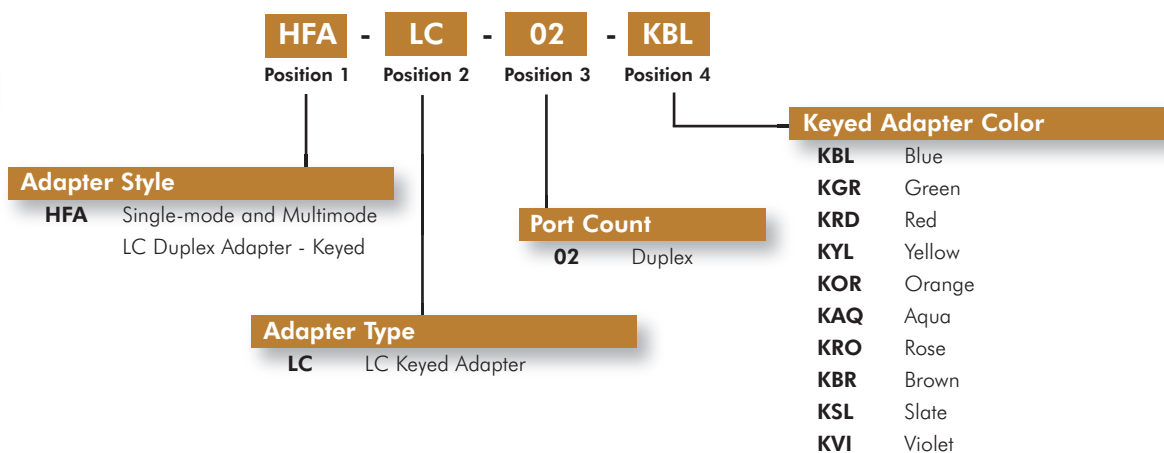


Catalog Number	Description
Adapters	
HFA-LC02-KXX	SM & MM LC duplex adapter - Keyed
Colored Mounting Modules W/O Adapters - Refer to the Accessories Section	
Rack Mount 1U Shelves for Keyed Solution - Use HFA-LC02-KXX adapters installed directly into the shelf	
RFE-FXC-012-EMT-SC01/1U	Rack Mount Fixed Combo Shelf, 1U, empty, holds 12 Simplex SC or 12 Duplex Keyed LC adapters
RFE-FXC-024-EMT-SC01/1U	Rack Mount Fixed Combo Shelf, 1U, empty, holds 24 Simplex SC or 24 Duplex Keyed LC adapters
Rack and Wall Mount units that use RFE-4U type panels for Keyed Solution	
RFE-SLC-EMT-BK/2U-PNL	Rack Mount Internal Sliding Splice and Termination Shelf, 2U, empty, holds four 4U panels, black
RFE-SLD-EMT-BK/4U	Rack Mount Internal Sliding Termination Shelf, 4U, empty, holds twelve 4U panels, black
RFE-FXD-EMT-BK/4U	Rack Mount Fixed Termination Shelf, 4U, empty, holds twelve 4U panels, black
WBE-EMT/4P-PNL	Wall Mount Box Holds four 4U type adapter panels
<i>Panels for Above</i>	
RFE-PNL-012-HFA-LC02/4U-KXX	Panel, Black, for Rack Mounted Shelves, with 6 Duplex KEYED LC adapters
RFE-PNL-024-HFA-LC02/4U-KXX	Panel, Black, for Rack Mounted Shelves, with 12 Duplex KEYED LC adapters
Wall Mount units that use WFE type panels for Keyed Solution	
WFE-EMT-BK/2P	Wall Mount 12 fiber Termination and Splice Box, Black, holds two WFE panels
WFE-EMT-BK/4P	Wall Mount 24 fiber Termination and Splice Box, Black, holds four WFE panels
<i>Panels for Above</i>	
WFE-PNL-012-HFA-LC02-BK-KXX	Panel, Black, for WFE Wall Mounted Boxes, with 6 Duplex SM/MM KEYED LC adapters

Color Codes for XX

Product	Color
BL	Blue
GR	Green
RD	Red
YL	Yellow
OR	Orange
AQ	Aqua
RO	Rose
BR	Brown
SL	Slate
VI	Violet

Keyed Adapter



Fiber LC Adapters

Adapters provide a means to mate connectors in a fixed panel. CommScope's adapters are available packaged individually or in bulk quantities of 100.

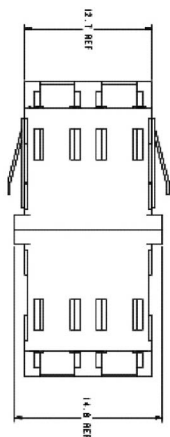
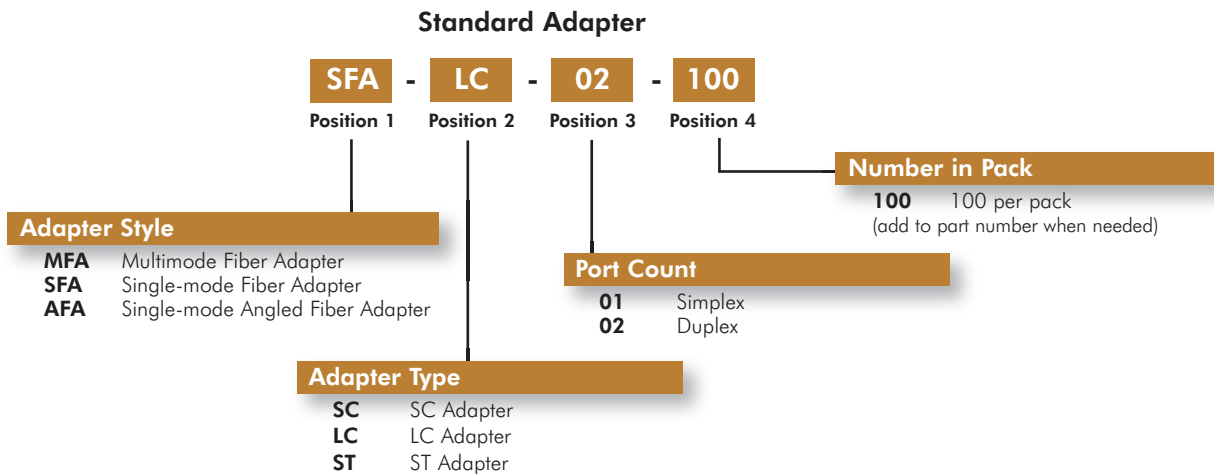
Features:

- Easy snap-in adapter design
- Color coded for multimode (beige), single-mode (blue) and angled (green)
- Adapters come standard with ceramic sleeves

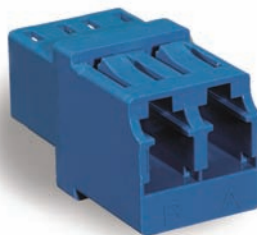
Benefits:

- Easy to snap adapters into panels making assembly faster and increases ease of installation and rearrangements
- Color coding prevents mismatch of fiber or connector types

Catalog Number	Description
MFA-LC01	MM, LC Simplex
SFA-LC01	SM, LC Simplex
MFA-LC02	MM, LC Duplex
SFA-LC02	SM, LC Duplex
AFA-LC01	SM, LC Angled Simplex
AFA-LC02	SM, LC Angled Duplex



SFA-LC02



AFA-LC01

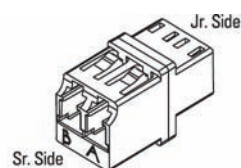


Fiber LC Adapters

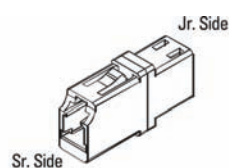
LC Adapter Materials

Connector Part	Material	UL 94 Rating	Oxygen Index
Adapter Housing	Engineering Plastic	V-0	50
SM Sleeve	Zirconia	-	-
MM Sleeve	Metal	-	-

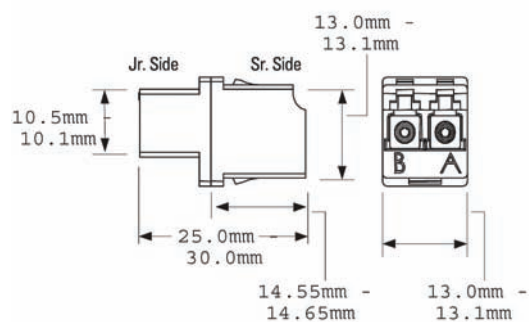
LC DUPLEX ADAPTER



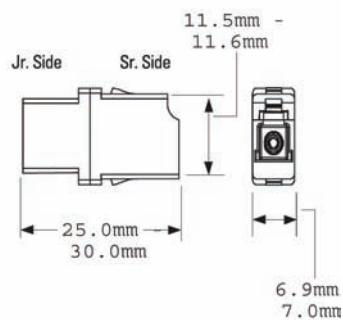
LC SIMPLEX ADAPTER



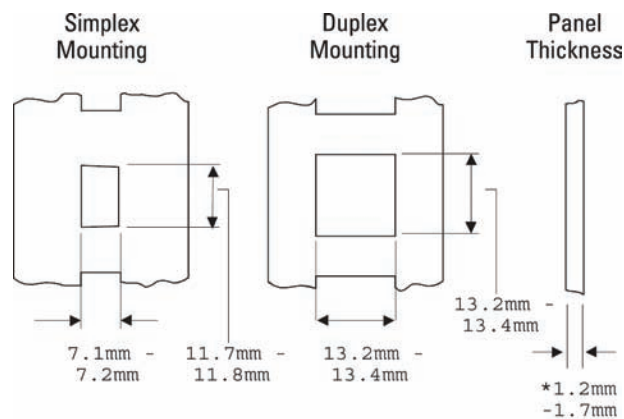
LC DUPLEX ADAPTER Footprint



LC SIMPLEX ADAPTER Footprint



PANEL CUTOUT DIMENSIONS FOR MOUNTING LC ADAPTERS



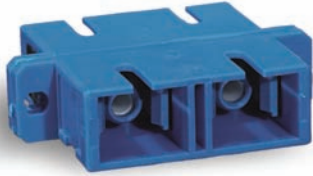
*Panel thickness "E" applies after surface preparation i.e. painting etc.

Fiber SC Adapters

Adapters provide a means to mate connectors in a fixed panel. CommScope's adapters are available packaged individually or in bulk quantities of 100.

Features:

- Easy snap-in or screw-in adapter design
- Color coded for multimode (beige), single-mode (blue) and angled (green)



SFA-SC02

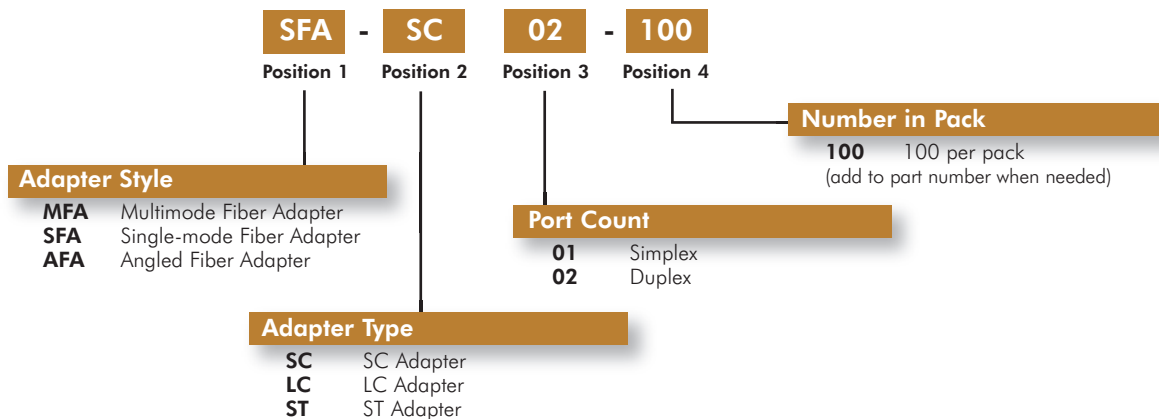
Benefits:

- Easy to snap adapters into panels making assembly faster and increases ease of installation and rearrangements
- Color coding prevents mismatch of fiber or connector types

Catalog Number	Description
SFA-SC01	SM, SC Simplex
MFA-SC02	MM, SC Duplex
SFA-SC02	SM, SC Duplex
AFA-SC01	Angled, SC Simplex
AFA-SC02	Angled, SC Duplex

Hybrid Duplex Adapter

Catalog Number	Description
MFA-SC/ST-02	MM, SC Duplex to ST Duplex

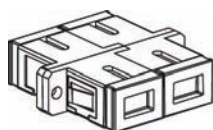


Fiber SC Adapters

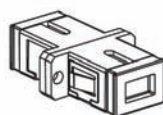
SC Adapter Materials

Connector Part	Material	UL 94 Rating	Oxygen Index
Adapter Housing	Engineering Plastics	V-0	28-35
Latch Insert	Engineering Plastics	V-0	46.5
Retaining Clip	Stainless Steel	-	-
SM Sleeve	Zirconia	-	-
MM Sleeve	Phosphor Bronze	-	-

SC DUPLEX ADAPTER

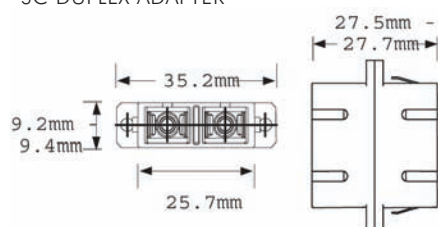


SC SIMPLEX ADAPTER

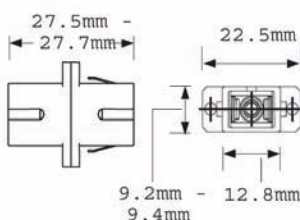


SC ADAPTER FOOTPRINT DIMENSIONS

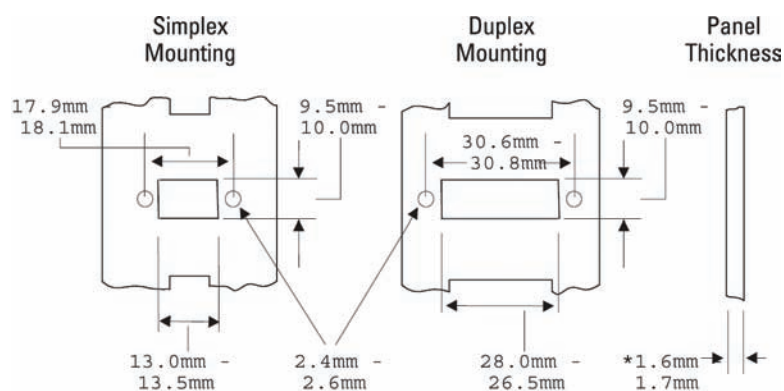
SC DUPLEX ADAPTER



SC SIMPLEX ADAPTER



PANEL CUTOUT DIMENSIONS FOR MOUNTING SC ADAPTERS



*Panel thickness "G" applies after surface preparation i.e. painting etc.

Fiber ST Adapters

Adapters provide a means to mate connectors in a fixed panel. CommScope's adapters are available packaged individually or in bulk quantities of 100.

Features:

- Threaded for mounting in pre-drilled holes
- Includes a locknut for secure mounting

Benefits:

- Proven industry standard design
- Body is keyed for easy installation

MFA-ST01



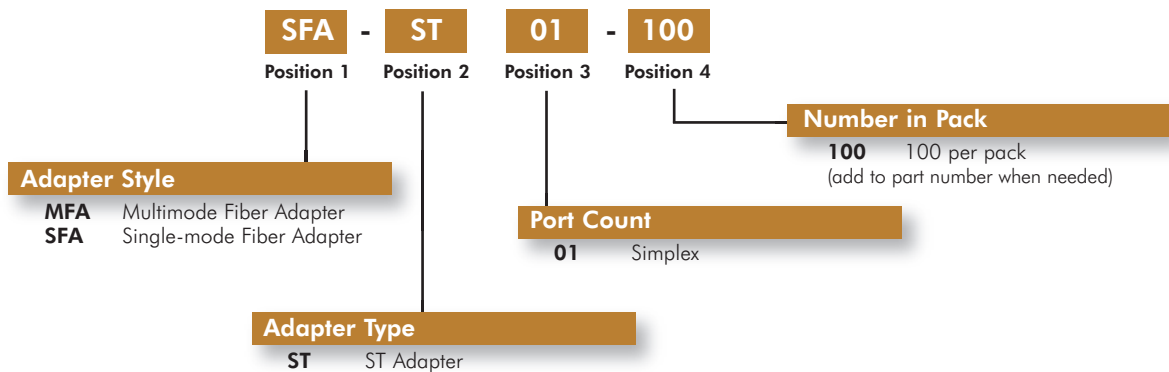
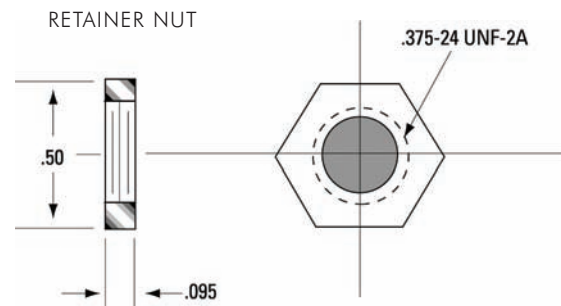
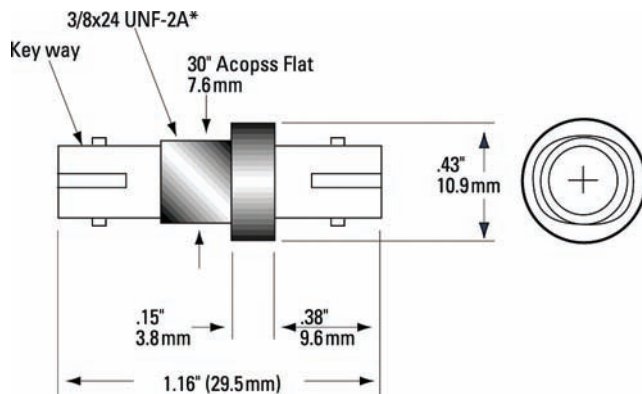
Catalog Number	Description
MFA-ST01	MM, ST Adapter
SFA-ST01	SM, ST Adapter

Hybrid Duplex Adapter

Catalog Number	Description
MFA-SC/ST-02	MM, SC Duplex to ST Duplex

ST Adapter

BAYONET/THREADED



F I B E R S O L U T I O N S

ReadyPATCH™ Solution
Assemblies/Terminated Cables
Pre-Terminated Shelves
Enclosures
Panels
Adapters
Connectors
Accessories
Closures
Tool Kits
Cables

Connectors

Keyed Fiber LC Connectors	158
Fiber EZ-LC Connectors°	160
Fiber EZ-SC Connectors°	162
Fiber EZ-ST Connectors°	164
Fiber Optic Qwik-LC Connectors°	166
Fiber Optic Qwik-SC Connectors°	167
Fiber Optic Qwik-ST Connectors°	168

Keyed Fiber LC Connectors

Small Form-Factor Connectors with Excellent Optical and Mechanical Performance

Today's facilities often employ more than one network and need mechanical security to limit access and prevent inadvertent cross-connection. The Uniprise Keyed LC Connectors and Adapters offer a tamper-proof design, reducing the chance of unauthorized connections. Ten connector-adapter combinations exist, identified by color, and in order for a connection to be possible, the connector and adapter colors must match. If the colors do not match, the keying features will prevent the connector from carrying the signal. Uniprise Keyed LC connectors will not mate with standard LC adapters, only the matching, same-color keyed adapter will mate with keyed connector.

Features:

- Duplex LC adapter mounts in the same footprint as a simplex SC adapter (See adapter section for information)
- Small form factor is half the size of standard connectors
- RJ-style housing
- Single-fiber ferrule for maintaining proper polarity
- Pull-proof for jumper
- UPC finish
- Minimal polish
- Standards compliant
- Standard Uniprise installation procedure
- Ten keys in distinct colors
- Available in Behind the Wall (BTW), Simplex Jumper and Duplex Jumper versions
- Black Universal Key available for use while testing

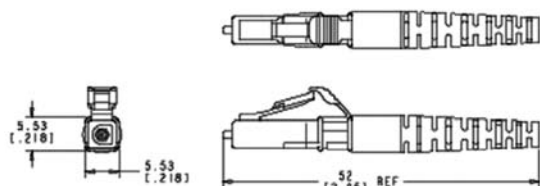
Benefits:

- Doubles density
- Disengages easily in dense spaces
- Maintains transmit/receive direction
- Maintains optical contact
- Helps minimize transmission problems
- Improves durability and reduces cross-connect rearrangement effort
- Reduces installation time for field-mountable connectors

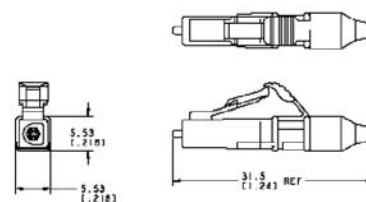
Keyed LC Connector Specifications

Specification	Value
Fiber Diameter, Nom.	125 μ m
Cable OD	0.9, 1.6 and 2.0 mm
Insertion Loss (max.)	
Multimode	0.6dB
Return Loss MM (multimode)	20dB (Min)
Mating Durability	
(insertion loss change after 500 reconnects)	<0.2dB
Temperature Stability 0 to 60° C	<0.4dB
Insertion Loss Change	<0.3dB
Tip Material	Zirconia

¹Complete connection concatenated statistics, 8.3/125 μ m fiber, 62.5/125 μ m single-mode fiber, dry connection
 This data was obtained through laboratory testing and simulated field environments.
 The performance is representative of all CommScope multimode and singlemode LC connectors.
 The performance for field turning is 0.1dB



1.6 MM Design with Boot for Cordage



0.9 MM Design for Behind the Wall (BTW)

Keyed Fiber LC Connectors

Small Form-Factor Connectors with Excellent Optical and Mechanical Performance

KEYED LC CONNECTORS



Catalog Number	Description
Connectors	
MFC-LCR-09-KXX	Keyed LC BTW, Pre-Radius MM
MFC-LCR-16-KXX	Keyed LC Simplex Pre-Radius MM, 1.6 mm cordage
MDC-LCR-16-KXX	Keyed LC Duplex Pre-Radius MM, 1.6 mm cordage
SFC-LCR-09-KXX	Keyed LC Simplex Pre-Radius SM
SFC-LCR-16-KXX	Keyed LC Simplex Pre-Radius SM, 1.6 mm cordage
SDC-LCR-16-KXX	Keyed LC Duplex Pre-Radius SM, 1.6 mm cordage

Color Codes for XX

Product	Color
BL	Blue
GR	Green
RD	Red
YL	Yellow
OR	Orange
AQ	Aqua
RO	Rose
BR	Brown
SL	Slate
VI	Violet

Fiber Optic EZ-LC Connectors®

Small Form-Factor Connectors with Excellent Optical and Mechanical Performance

The Uniprise EZ-LC Connector is designed to use the Uniprise Universal Polishing Consumable Kits. Unlike many LC connectors, the EZ-LC Connector has a pre-radiused ferrule which reduces the number of polishing papers and steps required for obtaining an excellent endface polish. The Uniprise Universal Polishing Procedure and Universal Polishing Consumables Kits are used on the EZ-LC and the standard Uniprise EZ-SC and EZ-ST connectors. The term EZ when applied in front of the LC, SC, or ST connector title implies that the connector has been or should be terminated with our anaerobic adhesive.

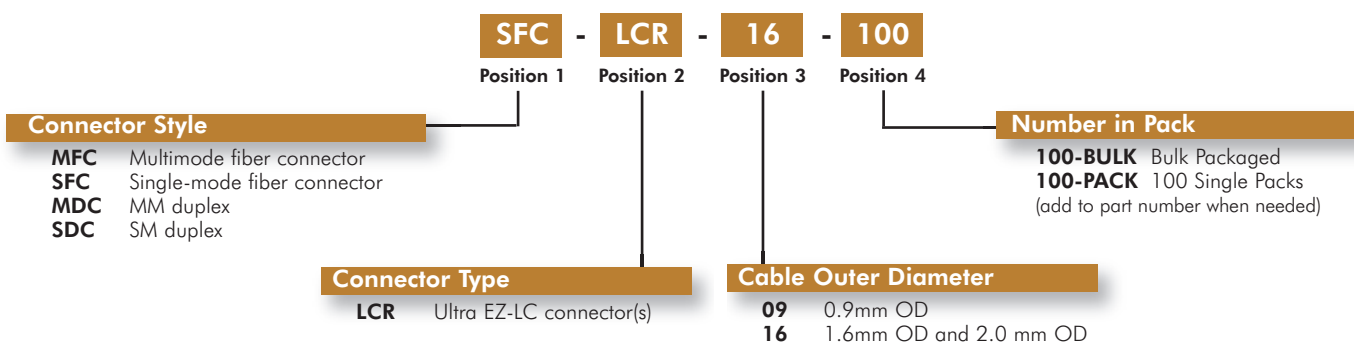
Features:

- Small form factor is half the size of standard connectors
- RJ-style housing
- Single-fiber ferrule for maintaining proper polarity
- Pull-proof for jumper
- UPC finish
- Anti-snap latch for jumper
- Minimal polish
- Standards compliant
- Uses the Uniprise Universal Polishing Procedure

Benefits:

- Doubles density
- Disengages easily in dense spaces
- Maintains transmit/receive direction
- Maintains optical contact
- Helps minimize transmission problems
- Improves durability and reduces cross-connect rearrangement effort
- Reduces installation time for field-mountable connectors

Catalog Number	Descriptions
MDC-LCR-16	MM duplex LC pre-radius connector for use on 1.6 mm cordage, single pack
MDC-LCR-16-100-BULK	MM duplex LC pre-radius connector for use on 1.6 mm cordage, 100 bulk pack
SDC-LCR-16	SM duplex LC pre-radius connector for use on 1.6 mm cordage, single pack
SDC-LCR-16-100-BULK	SM duplex LC pre-radius connector for use on 1.6 mm cordage, 100 bulk pack
MFC-LCR-09	MM LC pre-radius connector for use on 900 μ m buffered fiber, single pack
MFC-LCR-09-100-BULK	MM LC pre-radius connector for use on 900 μ m buffered fiber, 100 bulk packaged
MFC-LCR-09-100-PACK	MM LC pre-radius connector for use on 900 μ m buffered fiber, 100 single packs
MFC-LCR-09-1000-BULK	MM LC pre-radius connector for use on 900 μ m buffered fiber, 1000 bulk packaged
MFC-LCR-16	MM LC pre-radius connector for use on 1.6 mm cordage, single pack
MFC-LCR-16-100-BULK	MM LC pre-radius connector for use on 1.6 mm cordage, 100 bulk packaged
SFC-LCR-09	SM LC pre-radius connector for use on 900 μ m buffered fiber, single pack
SFC-LCR-09-100-BULK	SM LC pre-radius connector for use on 900 μ m buffered fiber, 100 bulk packaged
SFC-LCR-09-100-PACK	SM LC pre-radius connector for use on 900 μ m buffered fiber, 100 single packs
SFC-LCR-09-1000-BULK	SM LC pre-radius connector for use on 900 μ m buffered fiber, 1000 bulk packaged
SFC-LCR-16	SM LC pre-radius connector for use on 1.6 mm cordage, single pack
SFC-LCR-16-100-BULK	SM LC pre-radius connector for use on 1.6 mm cordage, 100 bulk packaged
FOT-KIT-CON-ANA	Anaerobic Bonder, Primer and Retaining Compound used with fiber polishing consumable kits
FOT-KIT-CON-M-UNIV-100	MM/STU/SCU/LCR Unified Polishing consumable kit for approximately 100 SCU/STU/ or 200 LCR connectors
FOT-KIT-CON-S-UNIV-100	SM/STU/SCU/LCR Unified Polishing consumable kit for approximately 100 SCU/STU/ or 200 LCR connectors
FOT-KIT-TOL-SC/ST/LC-ANA	LC, ST & SC tool kit to mount connectors using anaerobic adhesive on buffer fiber



Fiber Optic EZ-LC Connectors®

Small Form-Factor Connectors with Excellent Optical and Mechanical Performance



LC Field Mountable Connector Specifications

Specification	Value
Fiber Diameter, Nom.	125 μ m
Cable OD	0.9, 1.6 and 2.0 mm
Insertion Loss μ , s'	
Single-mode	0.2dB, 0.10dB
Multimode	0.2dB, 0.10dB
Return Loss	40dB SM / 26dB MM
Mating Durability (insertion loss change after 500 reconnects)	<0.2dB
Temperature Stability -40 to 75° C	<0.3dB
Insertion Loss Change	<0.3dB
Tip Material	Zirconia

¹Complete connection concatenated statistics, 8.3/125 μ m fiber, 62.5/125 μ m fiber, dry connection

- This data was obtained through laboratory testing and simulated field environments.

- The performance is representative of all CommScope multimode and single-mode LC connectors.

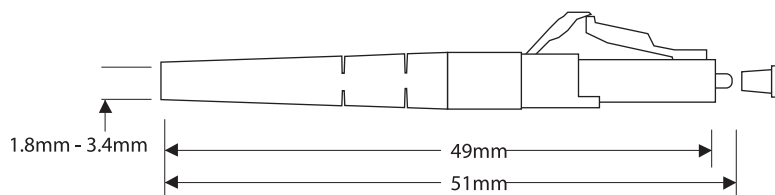
- The performance for field turning is 0.1dB



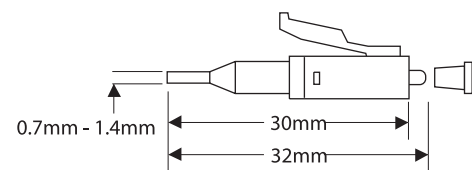
LC Angled Specifications (available factory installed only on pigtails and jumpers)

Specification	Value
Fiber Diameter, Nom.	125 μ m
Cable OD	0.9, 1.6 and 2.0 mm
Insertion Loss μ , s	0.08dB, 0.06dB
Return Loss	65dB
Mating Durability (insertion loss change after 500 reconnects)	<0.2dB
Temperature Stability -40 to 75° C	<0.3dB
Insertion Loss Change	<0.3dB
Tip Material	Zirconia

Typical xFC-LCx-29



Typical xFC-LCx-09



Fiber EZ-SC Connectors®

Push-Pull Style Connectors with Excellent Optical and Mechanical Performance

The EZ-SC Connector has a pre-radiused ferrule which reduces the number of polishing papers and steps required for obtaining an excellent endface polish.

Features:

- Push-pull connector design
- Rugged and adaptable compared to other connectors
- Stable performance
- Pull-proof for jumper
- Minimal polish
- Uses the Uniprise Universal Polishing Kit and Procedure

Benefits:

- Reduces assembly time and simplifies training
- Easy-to-install adapters and connectors
- Can be used in multiple applications, including work area outlet
- Maintains optical contact under load, and helps prevent accidental disconnects
- Helps minimize transmission problems
- Optimizes optical contact
- Reduces maintenance and creates consistent optical performance

Pre-Radius SC Connectors - Universal Polishing

Catalog Number	Description
MFC-SCU-09	MM SC connector for use on 900 μ m buffered fiber, single pack
MFC-SCU-09-100-BULK	MM SC connector for use on 900 μ m buffered fiber, 100 bulk packaged
MFC-SCU-09-100-PACK	MM SC connector for use on 900 μ m buffered fiber, 100 single packs
MFC-SCU-29	MM SC connector for use on 2.9 mm cordage, single pack
MFC-SCU-29-100-BULK	MM SC connector for use on 2.9 mm cordage, 100 bulk packaged
MFC-SCU-29-100-PACK	MM SC connector for use on 2.9 mm cordage, 100 single packs
SFC-SCU-09	SM SC connector for use on 900 μ m buffered fiber, single pack
SFC-SCU-09-100-BULK	SM SC connector for use on 900 μ m buffered fiber, 100 bulk packaged
SFC-SCU-09-100-PACK	SM SC connector for use on 900 μ m buffered fiber, 100 single packs
SFC-SCU-29	SM SC connector for use on 2.9 mm cordage, single pack
SFC-SCU-29-100-BULK	SM SC connector for use on 2.9 mm cordage, 100 bulk packaged
SFC-SCU-29-100-PACK	SM SC connector for use on 2.9 mm cordage, 100 single packs
FOT-KIT-SC-CLP	Duplex Clip, Makes Simplex SC Connectors into Duplex, 10 per package
FOT-KIT-CON-SC/16-100	Consumable Kit, Mount SC Connectors on 1.6mm cordage, 100 bulk
FOT-KIT-CON-SC/16-25	Consumable Kit, Mount SC Connectors on 1.6mm cordage, 25 bulk



FOT-KIT-SC-CLP

(Compatible with SFC-SCU-09 and MFC-SCU-29)



MFC-SCU-09



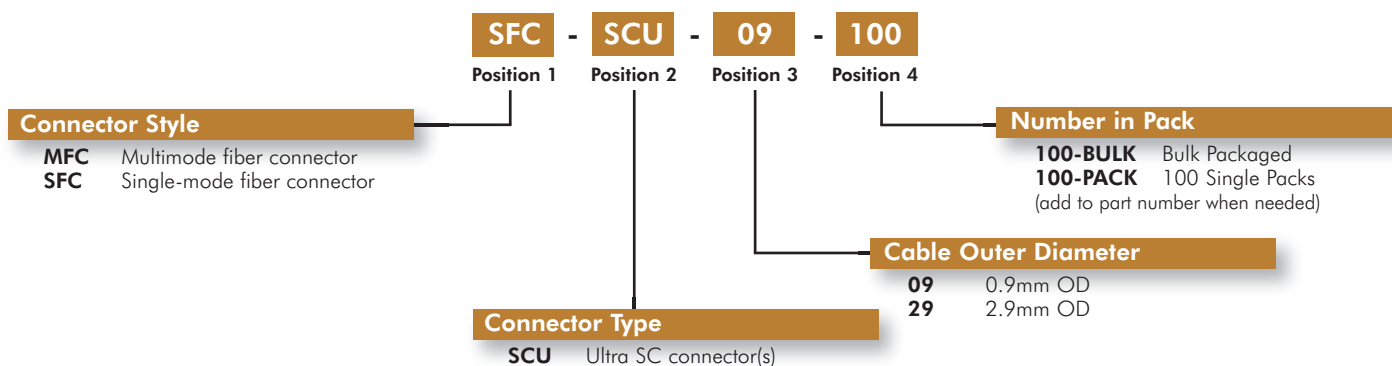
SFC-SCU-09



MFC-SCU-29



SFC-SCU-29



Fiber EZ-SC Connectors

Push-Pull Style Connectors with Excellent Optical and Mechanical Performance

SC Specifications

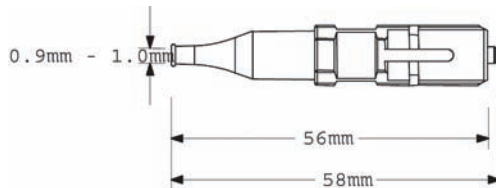
Fiber Type	Multimode	Multimode	Single-mode	Single-mode
Catalog Number	MFC-SCU-09	MFC-SCU-29	SFC-SCU-09	SFC-SCU-29
Insertion Loss μ , s	0.2dB, 0.2	0.2dB, 0.2	0.2dB, 0.2	0.2dB, 0.2
Fiber OD, nom	125 μ m	125 μ m	125 μ m	125 μ m
Return Loss	20dB	20dB	40dB	40dB
Cable OD, nom	0.9mm	2.9mm, 1.6mm*	0.9mm	2.9mm, 1.6mm*
Proof Test, Axial, nom	2lbs	30lbs, 20lbs	2lbs	30lbs, 20lbs
Insertion Loss Stability	<0.3dB	<0.3dB	<0.3dB	<0.3dB

* Note: In order to install the SC connector on 1.6mm cordage, you must order the following kit: FOT-KIT-SC-C.

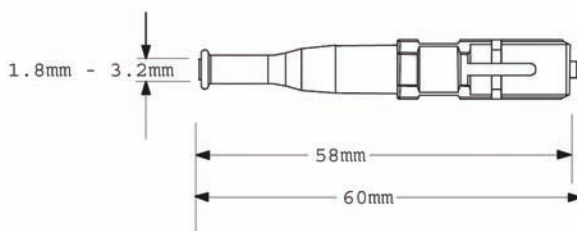
The clip catalog number FOT-KIT-SC-CLP is needed to connect two simplex connectors in a duplex configuration.

Specification	Value
Mating Durability (insertion loss change after 500 reconnects)	<0.2dB
Temperature Stability -40 to 85° C	<0.3dB

Typical xFC-SCx-09



Typical xFC-SCx-29



Fiber EZ-ST Connectors®

Twist-Lock Style Connectors with Excellent Optical and Mechanical Performance

The EZ-ST Connector has a pre-radiused ferrule which reduces the number of polishing papers and steps required for obtaining an excellent endface polish.

Features:

- Twist-Lock connector design
- Stable performance
- Metal housing
- Minimal polish
- Uses the Uniprise Universal Polishing Kit and Procedures

Benefits:

- Easy-to-install connectors
- Maintains optical contact under load, and helps prevent accidental disconnects
- Multiple applications

Pre-Radius ST Connectors - Universal Polishing

Catalog Number	Description
MFC-STU	MM, ST for use on 900 μ m buffer and 2.9mm cordage, single pack
MFC-STU-100-BULK	MM, ST for use on 900 μ m buffer and 2.9mm cordage, 100 bulk packaged
MFC-STU-100-PACK	MM, ST for use on 900 μ m buffer and 2.9mm cordage, 100 single packs
SFC-STU	SM, ST for use on 900 μ m buffer and 2.9mm cordage, single pack
SFC-STU-100-BULK	SM, ST for use on 900 μ m buffer and 2.9mm cordage, 100 bulk packaged
SFC-STU-100-PACK	SM, ST for use on 900 μ m buffer and 2.9mm cordage, 100 single packs
FOT-KIT-CON-ST/16-100	Consumable Kit, Mount ST Connectors on 1.6mm cordage, 100 bulk
FOT-KIT-CON-ST/16-25	Consumable Kit, Mount ST Connectors on 1.6mm cordage, 25 bulk

The Single-mode and Multimode EZ-ST Connectors come packaged with a 900 μ m buffered fiber strain relief for behind the wall (BTW) applications and a 2.9 mm strain relief for jumper applications.



SFC-STU



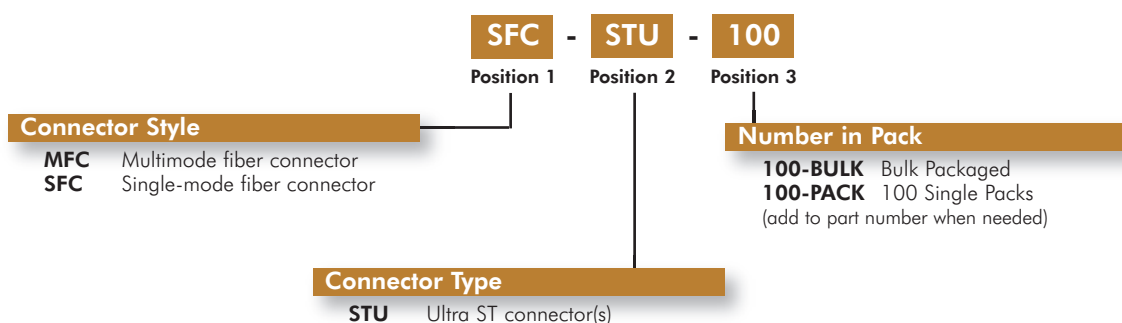
MFC-STU



MFC-STU



SFC-STU



Fiber EZ-ST Connectors



Twist-Lock Style Connectors with Excellent Optical and Mechanical Performance

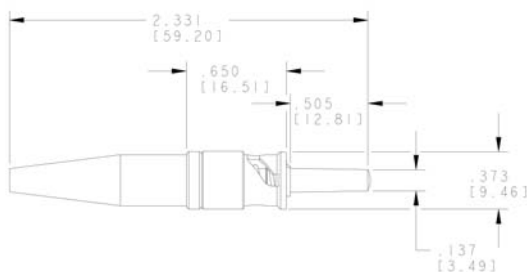
ST Multimode Specifications

Specification		MFC-STU		MFC-STU
Cable OD, Buffer OD		2.9mm		0.9mm
Loss* μ , s		0.3dB, 0.2dB		0.3dB, 0.2dB
Fiber OD nom		125 μ m		125 μ m
Loss repeat (500 reconnects)		<0.3dB		<0.3dB
Axial Load (minimum)		15lbs (6.8kg)		2 lbs (0.9kg)
		Cable (3.0mm)		Buffer (0.9mm)
Temperature Stability (-40°C to 75°C)		<0.3dB increase		<0.3dB increase
Materials	Tip		Zirconia	
	Cap		Brass, Ni-Plated	
	Body		Zinc, Ni-Plated	

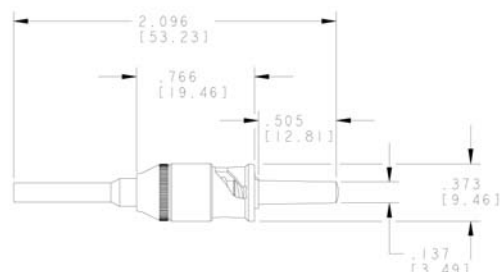
ST Single-mode Specifications

Specification		SFC-STU		SFC-STU
Cable OD, Buffer OD		2.9mm		0.9mm
Loss μ , s		0.3dB, 0.2dB		0.3dB, 0.2dB
Return Loss (average, minimum)		44dB, 40 dB		44dB, 40 dB
Fiber OD nom		125 μ m		125 μ m
Loss repeat (200 reconnects)		<0.3dB		<0.3dB
Axial Load (minimum)		15lbs (6.8kg)		2 lbs (0.9kg)
		Cable (2.9mm)		Buffer (0.9mm)
Temperature Stability (-40°C to 75°C)		<0.3dB increase		<0.3dB increase
		40dB min. return loss		
Materials	Tip		Zirconia	
	Cap		Brass, Ni-Plated	
	Body		Zinc, Ni-Plated	

Typical xFC-STx-09



Typical xFC-STx-09



Fiber Optic Qwik-LC Connectors®

The Uniprise Qwik-LC Connectors® are no-epoxy, no-polish connectors that feature a mechanical crimp making fiber terminations faster and easier than typical epoxy terminations. The Qwik-LC Connector is ideal for behind the wall (BTW) applications, rapid repairs or for limited space situations where polishing maybe difficult. The Qwik-LC Connector offers a quick and repeatable termination solution for immediate connectivity on all 900 μm fiber types.

Features & Benefits:

- Performance exceeds ANSI/TIA/EIA-568-B standard
- Complete tool kit with cleaning solution, wipes, and scrap fiber container designed for quick setup and tear-down
- Comes packaged in a 25 counter installer pack that is portable and convenient
- The benefits of this product are further complimented by being the same overall size of the standard epoxy/polish LC products

Catalog Number	Descriptions
SFC-LCQ-09-8X-25-PACK	SM LC Qwik connector for use on 900 μm buffered fiber, 25 connectors per pack
MFC-LCQ-09-5X-25-PACK	MM 50 μm LC Qwik connector for use on 900 μm buffered fiber, 25 connectors per pack
MFC-LCQ-09-6X-25-PACK	MM 62.5 μm LC Qwik connector for use on 900 μm buffered fiber, 25 connectors per pack
FOT-KIT-TOL-SC/ST/LC-QWIK	LC, ST & SC tool kit to mount SC, ST and LC Qwik connectors on buffered fiber



SFC-LCQ-09



FOT-KIT-TOL-SC/ST/LC-QWIK

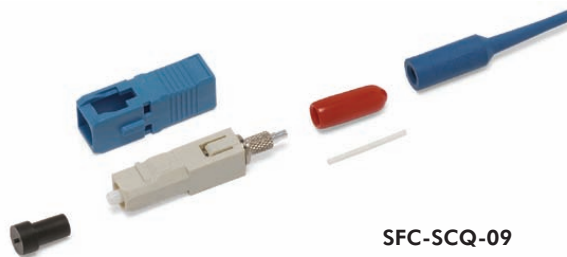
Fiber Optic Qwik-SC Connectors®

The Uniprise Qwik-SC Connectors® are no-polish, no-epoxy connectors that feature a mechanical crimp making fiber terminations faster and easier than typical epoxy terminations. The Qwik-SC Connector is ideal for behind the wall (BTW) applications, rapid repair or for limited space situations where polishing may be difficult. The Qwik-SC Connector offers a quick and repeatable termination solution for immediate connectivity on all 900 μm fiber types.

Features & Benefits:

- Performance exceeds ANSI/TIA/EIA-568-B standard
- Complete tool kit with cleaning solution, wipes, and scrap fiber container designed for quick setup and tear-down
- Comes packaged in a 25 counter installer pack that is portable and convenient
- The benefits of this product are further complimented by being the same overall size of the standard epoxy/polish SC products

Catalog Number	Descriptions
SFC-SCQ-09-8X-25-PACK	SM SC Qwik connector for use on 900 μm buffered fiber, 25 connectors per pack
MFC-SCQ-09-5X-25-PACK	MM 50 μm SC Qwik connector for use on 900 μm buffered fiber, 25 connectors per pack
MFC-SCQ-09-6X-25-PACK	MM 62.5 μm SC Qwik connector for use on 900 μm buffered fiber, 25 connectors per pack
FOT-KIT-TOL-SC/ST/LC-QWIK	LC, ST & SC tool kit to mount SC, ST and LC Qwik connectors on buffered fiber



SFC-SCQ-09

Fiber Optic Qwik-ST Connectors®

The Uniprise Qwik-ST Connectors® are no-polish, no-epoxy connectors that feature a mechanical crimp making fiber terminations faster and easier than typical epoxy terminations. The Qwik-ST Connector is ideal for behind the wall (BTW) applications, rapid repairs or for limited space situations where polishing may be difficult. The Qwik-ST Connector offers a quick and repeatable termination solution for immediate connectivity on all 900 μm fiber types.

Features & Benefits:

- Performance exceeds ANSI/TIA/EIA-568-B standard
- Complete tool kit with cleaning solution, wipes, and scrap fiber container designed for quick setup and tear-down
- Comes packaged in a 25 counter installer pack that is portable and convenient
- The benefits of this product are further complimented by being the same overall size of the standard epoxy/polish ST products

Catalog Number	Descriptions
MFC-STQ-09-5X-25-PACK	MM 50 μm ST Qwik connector for use on 900 μm buffered fiber, 25 connectors per pack
MFC-STQ-09-6X-25-PACK	MM 62.5 μm ST Qwik connector for use on 900 μm buffered fiber, 25 connectors per pack
FOT-KIT-TOL-SC/ST/LC-QWIK	LC, ST & SC tool kit to mount SC, ST and LC Qwik connectors on buffered fiber



F I B E R S O L U T I O N S

ReadyPATCH™ Solution

Assemblies/Terminated Cables

Pre-Terminated Shelves

Enclosures

Panels

Adapters

Connectors

Accessories

Closures

Tool Kits

Cables

Accessories

Fiber Mounting Modules | 172

Fiber Mounting Modules

All UNFA adapter modules are designed for fiber optic applications that are either stand-alone fiber or fiber/copper systems. UNFA adapter modules are designed to work in new installations or retrofit upgrades.

Features:

- UNFA adapter modules are available as kits with mounting modules and an adapter in one package
- Easily assembled with no special tools required
- Available for standard connector types - ST, SC, LC

Benefits:

- Includes everything required to attach to a faceplate
- Industry standard size will fit most existing faceplates

ST and SC are available pre-packaged with an adapter and one each White, Ivory, Gray and Black mounting modules. LC are available pre-packaged with a fiber spool that matches the adapter/fiber type color - Beige, Aqua or Blue. The fiber spool is supplied to assist maintaining the proper bend radius behind the faceplate.

Pre-Packaged UNFA Kits

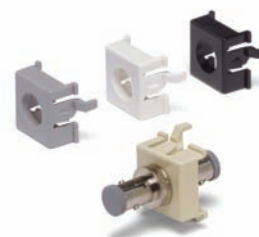
Catalog Number	Description
UNFA-LC02-AQ	Faceplate Adapter, Duplex LC adapter with fiber spool for LaserCore 50 μ m MM
UNFA-LC02-BG	Faceplate Adapter, Duplex LC adapter with fiber spool for FDDI grade 62.5 μ m MM
UNFA-LC02-BL	Faceplate Adapter, Duplex LC adapter with fiber spool for LightScope ZWP SM
UNFA-LC02-BG-CL	Faceplate Adapter, Clear Duplex LC adapter with a Beige MM LC duplex adapter
UNFA-LC02-AQ-CL	Faceplate Adapter, Clear Duplex LC adapter with an Aqua MM LC duplex adapter
UNFA-LC02-BL-CL	Faceplate Adapter, Clear Duplex LC adapter with a Blue SM LC duplex adapter
UNFA-SC01-BL	Faceplate Adapter, Simplex Blue SC adapter for SM and MM
UNFA-SC01-BG	Faceplate Adapter, Simplex Beige SC adapter for MM
UNFA-SC01-AQ	Faceplate Adapter, Simplex Aqua SC adapter for MM, 50 μ m
UNFA-ST01	Faceplate Adapter, Simplex ST adapter for MM



UNFA-LC02-AQ



UNFA-SC01-BL



UNFA-ST01

Mounting modules and adapters are also available in contractor packs. Mounting modules are available in 25 packs of a single color. Standard ST and SC adapters can be used and are available individually or in packs. Special low profile duplex LCs that have an SC simplex foot print are required and are available in 25 packs.

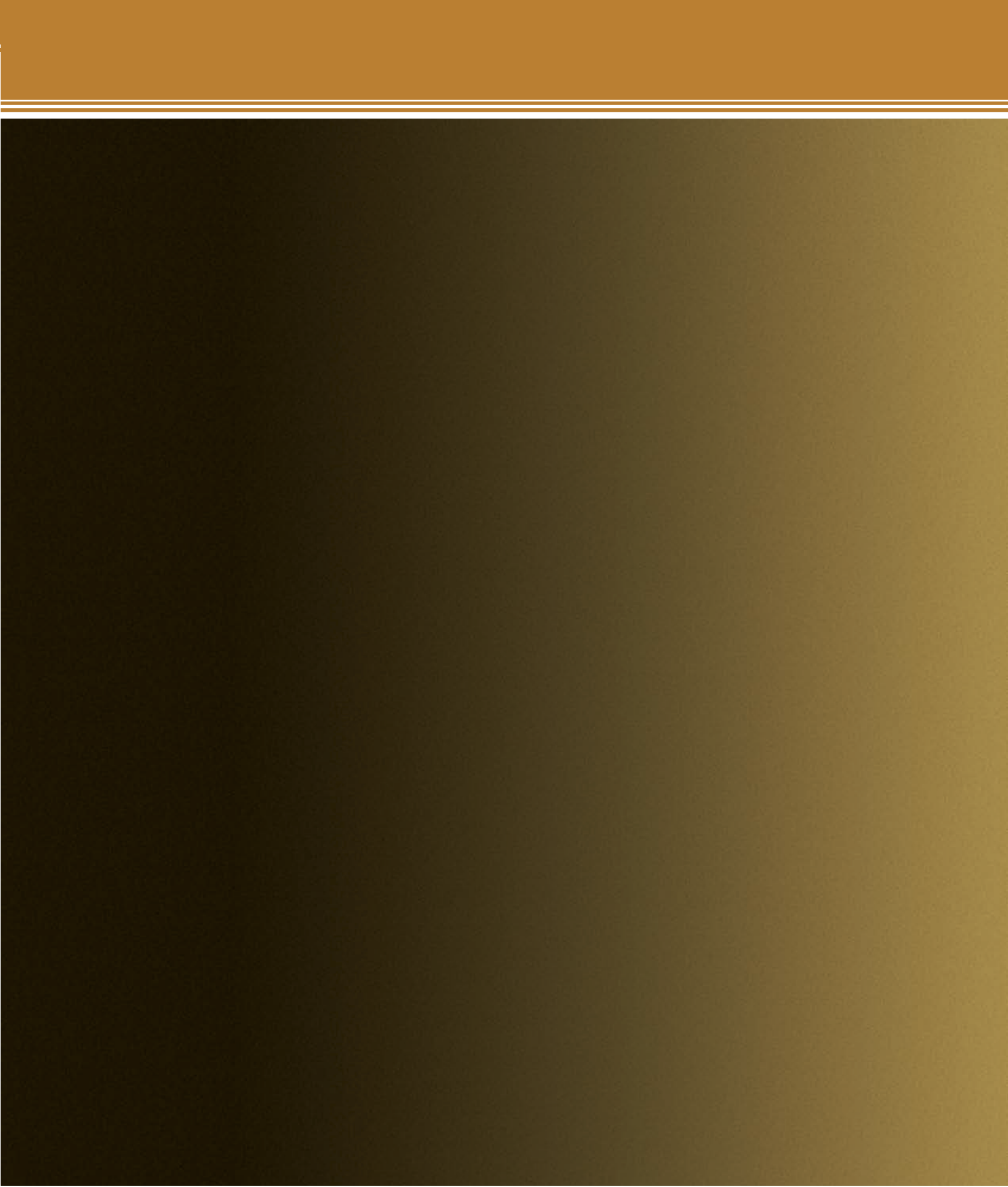
Contractor Packs of Individual Items

Colored Mounting Modules W/O Adapters

Catalog Number	Description
UNFA-EMM-ST01-BK-PACK-25	Mounting Module, Empty, for Simplex ST, Black - 25 pack
UNFA-EMM-ST01-GY-PACK-25	Mounting Module, Empty, for Simplex ST, Gray - 25 pack
UNFA-EMM-ST01-IV-PACK-25	Mounting Module, Empty, for Simplex ST, Ivory - 25 pack
UNFA-EMM-ST01-WH-PACK-25	Mounting Module, Empty, for Simplex ST, White - 25 pack
UNFA-EMM-SC01/LC02-BK-PACK-25	Mounting Module, Empty, for Low Profile Duplex LC or Simplex SC, Black - 25 pack
UNFA-EMM-SC01/LC02-GY-PACK-25	Mounting Module, Empty, for Low Profile Duplex LC or Simplex SC, Gray - 25 pack
UNFA-EMM-SC01/LC02-IV-PACK-25	Mounting Module, Empty, for Low Profile Duplex LC or Simplex SC, Ivory - 25 pack
UNFA-EMM-SC01/LC02-WH-PACK-25	Mounting Module, Empty, for Low Profile Duplex LC or Simplex SC, White - 25 pack

Low Profile LC Duplex Adapters For Mounting Modules

Catalog Number	Description
SFA-LC02-BL/LP-25-PACK	SM LC Duplex Adapter, Low Profile, Blue - 25 pack
AFA-LC02-GR/LP-25-PACK	Angle LC Duplex Adapter, Low Profile, Green - 25 pack
MFA-LC02-BG/LP-25-PACK	MM LC Duplex Adapter, Low Profile, Beige - 25 pack
MFA-LC02-AQ/LP-25-PACK	MM LC Duplex Adapter, Low Profile, Aqua - 25 pack



F I B E R S O L U T I O N S

ReadyPATCH™ Solution
Assemblies/Terminated Cables
Pre-Terminated Shelves
Enclosures
Fiber Panels
Adapters
Connectors
Accessories
Closures
Tool Kits
Cables

Closures

OSP Fiber Closure Kits	176
UFE Fiber Closure Kits	181

OSP Fiber Closures

All CommScope closures employ a reusable grommet system to seal the closure. Re-entry into the closure is easy and non-destructive to the closure or cable. Through the use of splice trays and cradles, the closures can hold a large array of fiber splices.

The Type A closure can hold up to 18 single fusion splices in a compact unit. These closures are for outside plant and can be used in aerial, underground, and buried applications.

This closure comes with the splice tray and the hardware required to splice two cables together.

Splice sleeves are required.



OFE-CLS-A-018-SFS

Catalog Number	Product	Description
OFE-CLS-A-018-SFS	Closure	Closure, A, for up to 18 Fibers

Type B closures can hold up to 48 single fusion splices and up to 12 mass fusion splices (144 total fibers) in a compact unit. These closures are for outside plant and can be used in aerial, underground, and buried applications. Depending on the part number ordered, this closure comes with a splice tray that will hold 48 single fusion splices or a splice tray that will hold twelve mass fusion splices. The hardware required to splice two cables together is included.

Splice sleeves are required.



OFE-CLS-B-048-SFS

Catalog Number	Product	Description
OFE-CLS-B Closure Kits		
OFE-CLS-B-048-SFS-LT	Closure	Closure, B, for Non-Central Tube Cables, up to 48 Single Fusion Splices and .4"/.85" Grommets
OFE-CLS-B-048-SFS-CT	Closure	Closure, B, for Central Tube Cables, up to 48 Single Fusion Splices and .3"/.6" Grommets
OFE-CLS-B-144-MFS	Closure	Closure, B, for up to 144 Mass Fusion Splices and .4"/.85" Grommets
Grommet & Grip Kits		
OFE-CLS-B-KIT-GRG-.3/.4	Grommet	Grip and Grommet Kit for OFE-CLS-B for cable OD 0.3" to 0.4"
OFE-CLS-B-KIT-GRG-.4/.85	Grommet	Grip and Grommet Kit for OFE-CLS-B for cable OD 0.4" to 0.85"
OFE-CLS-B-KIT-GRG-.7/.9	Grommet	Grip and Grommet Kit for OFE-CLS-B for cable OD 0.7" to 0.9"
Mounting Kits & Accessories		
OFE-CLS-B/C-KIT-BND/GND	Hardware	Bonding and Grounding Hardware for OFE-CLS-B & C
OFE-CLS-B/C-KIT-MNT-VRT	Hardware	Mounting Hardware for the OFE-CLS-B & C for Vertical Mounting
OFE-CLS-B/D-KIT-MNT-AIR	Hardware	Mounting Hardware for the OFE-CLS-B & D for Aerial Mounting
OFE-CLS-B-MNT-POL/WAL	Hardware	Mounting Hardware for the OFE-CLS-B for Pole and Wall Mounting

OSP Fiber Closures



All CommScope closures employ a reusable grommet system to seal the closure. Re-entry into the closure is easy and non-destructive to the closure or cable. Through the use of splice trays and cradles, the closures can hold a large array of fiber splices.

Type C closures can hold up to 288 single fusion splices and up to 48 mass fusion splices (576 total fibers) in a compact unit. These closures are for outside plant and can be used in aerial, underground, and buried applications.

Depending on the part number ordered, this closure comes with no splice trays, two 36 fiber single fusion splice trays or two 12 fiber ribbon mass fusion splice trays. Additional trays and grommets can be ordered separately.

Splice sleeves are required.



OFE-CLS-C-072-SFS

Catalog Number	Product	Description
Closures		
OFE-CLS-C-072-SFS	Closure	Closure C, with Two 36 SFS Trays and One Dual Cable 0.4"/0.85" Grommet
OFE-CLS-C-288-MFS	Closure	Closure C, with Two 12 MFS Trays and One Dual Cable 0.4"/0.85" Grommet
OFE-CLS-C-EMT	Closure	Closure C, with NO Grommets or Splice Trays
Grommet & Grip Kit		
OFE-CLS-C-KIT-GRG-.3/.4	Grommet	Grip and Grommet Kit for OFE-CLS-C for cable OD 0.3" to 0.4"
OFE-CLS-C-KIT-GRG-.4/.85	Grommet	Grip and Grommet Kit for OFE-CLS-C for cable OD 0.4" to 0.85"
OFE-CLS-C-KIT-GRG-.7/.9-CT	Grommet	Grip and Grommet Kit for OFE-CLS-C for CT cable OD 0.7" to 0.9"
OFE-CLS-C-KIT-GRG-.7/.9-LT	Grommet	Grip and Grommet Kit for OFE-CLS-C for LT cable OD 0.7" to 0.9"
Mounting Kits & Accessories		
OFE-CLS-B/C-MNT-VRT	Mounting Hardware	Mounting Hardware for the OFE-CLS-B & C for Vertical Mounting
OFE-CLS-C-MNT-AIR	Mounting Hardware	Mounting Hardware for the OFE-CLS-C for Aerial Mounting
OFE-CLS-C-MNT-POL	Mounting Hardware	Mounting Hardware for the OFE-CLS-C for Pole Mounting
OFE-CLS-C-MNT-WAL	Mounting Hardware	Mounting Hardware for the OFE-CLS-C for Wall Mounting
OFE-CLS-C-SPT-24	Splice Trays	Splice Trays for OFE-CLS-C for 24 Mechanical or Single Fusion Splices
OFE-CLS-C-SPT-36	Splice Trays	Splice Trays for OFE-CLS-C for 36 Mechanical or Single Fusion Splices
OFE-CLS-C-SPT-EMT	Splice Trays	Splice Trays for OFE-CLS-C, Empty, Pack of 4 Trays (36 Splices) with NO Splice Holders
OFE-CLS-C-SPT-MFS	Splice Trays	Splice Trays for OFE-CLS-C for 12 Mass Fusion Splices
OFE-CLS-C-KIT-RTY	Reentry Kit	Reentry Kit for OFE-CLS-C Replacement O-Rings, etc.
OFE-CLS-B/C-KIT-BND/GND	Bonding & Grounding Hardware	Bonding and Grounding Hardware for OFE-CLS-B & C

OSP Fiber Closures

All CommScope closures employ a reusable grommet system to seal the closure. Re-entry into the closure is easy and non-destructive to the closure or cable. Through the use of splice trays and cradles, the closures can hold a large array of fiber splices.

Type D closures can hold up to 684 single fusion splices and up to 168 mass fusion splices (2016 total fibers) in a compact unit. These closures are for outside plant and can be used in aerial, underground, and buried applications.

Depending on the part number ordered, this closure comes with no splice trays, no splice trays and an extended size cover, or two 36 fiber single fusion splice trays. Additional trays and grommets can be ordered separately.

Splice sleeves are required.



OFE-CLS-D-072-SFS-CT

Catalog Number	Product	Description
Closures		
OFE-CLS-D-072-SFS-CT	Closure	Closure, D, for Central Tube Cables with Two 36 SFS Trays and 0.4" to 1.0" Grommets
OFE-CLS-D-072-SFS-LT	Closure	Closure, D, for Non-Central Tube Cables with Two 36 SFS Trays and 0.4" to 1.0" Grommets
OFE-CLS-D-EMT	Closure	Closure, D, Standard cover and base with NO Grommets or Splice Trays
OFE-CLS-D-EMT/XC	Closure	Closure, D, Extended cover and base with NO Grommets or Splice Trays
Grommet & Grip Kits		
OFE-CLS-D-KIT-GRG-.4/.7-CT	Grommet	Grip and Grommet Kit, OFE-CLS-D non-split central tube cable OD 0.4" to 0.7"
OFE-CLS-D-KIT-GRG-.4/.7-LT	Grommet	Grip and Grommet Kit, OFE-CLS-D non-split loose tube cable OK 0.4" to 0.7"
OFE-CLS-D-KIT-GRG-.7/1.2-LT/CT	Grommet	Grip and Grommet Kit, OFE-CLS-D non-split central and loose tube cable OD 0.7" to 1.2"
OFE-CLS-D-KIT-GSG-.25/.35-LT	Grommet	Grip and Grommet Kit, OFE-CLS-D two hole split loose tube cable OD .25" to .35"
OFE-CLS-D-KIT-GSG-.35/.45-CT	Grommet	Grip and Grommet Kit, OFE-CLS-D two hole split central tube cable OD .35" to .45"
OFE-CLS-D-KIT-GSG-.35/.45-LT	Grommet	Grip and Grommet Kit, OFE-CLS-D two hole split loose tube cable OD .35" to .45"
OFE-CLS-D-KIT-GSG-.45/.62-CT	Grommet	Grip and Grommet Kit, OFE-CLS-D two hole split central tube cable OD .45" to .62"
OFE-CLS-D-KIT-GSG-.45/.62-LT	Grommet	Grip and Grommet Kit, OFE-CLS-D two hole split loose tube cable OD .45" to .62"
OFE-CLS-D-KIT-GSG-.62/.75-CT	Grommet	Grip and Grommet Kit, OFE-CLS-D two hole split central tube cable OD .62" to .75"
OFE-CLS-D-KIT-GSG-.62/.75-LT	Grommet	Grip and Grommet Kit, OFE-CLS-D two hole split loose tube cable OD .62" to .75"
OFE-CLS-D-KIT-GSG-.7/1.0-LT/CT	Grommet	Grip and Grommet Kit, OFE-CLS-D single split central and loose tube cable OD .7" to 1.0"
Mounting Kits & Accessories		
OFE-CLS-B/D-MNT-AIR	Hardware	Mounting Hardware for teh OFE-CLS-B & D for Aerial Mounting
OFE-CLS-D-MNT-POL	Hardware	Mounting Hardware for the OFE-CLS-D for Pole Mounting
OFE-CLS-D-SPT-24-MFS	Splice Trays	Splice Trays for OFE-CLS-D for 24 Mass Fusion Splices
OFE-CLS-D-SPT-36	Splice Trays	Splice Trays for OFE-CLS-D for 36 Mechanical or Single Fusion Splices
OFE-CLS-D-SPT-72-MFS	Splice Trays	Splice Trays for OFE-CLS-D for 72 Mass Fusion Splices
OFE-CLS-D-KIT-GRDLUG	Accessory	Ground Lug Insulator for the OFE-CLS-D
OFE-CLS-D-KIT-GROUND	Grounding Kit	Cable Grounding Kit for the OFE-CLS-D, Cable OD 0.2" to 0.8"
OFE-CLS-D-XGROUND	Accessory	Ground Lug Hardware for the OFE-CLS-D

OSP Fiber Closures

Uniprise J, K, and L Outside Plant (OSP) splice closures are designed for aerial, buried, and manhole applications. Complying with Telcordia GR-20 for environmental sealing and water immersion, the splice closures accommodate 96 (OFE-CLS-J), 288 (OFE-CLS-K) and 384 (OFE-CLS-L) single-fusion splices depending on the splice trays used. The OSP closures are suitable for loose tube, central tube, micro-sheath/duct, and blown fiber applications. Bonding and grounding may be set in the closure, as either common bonding/grounding, isolated cable grounding, or externally grounded. Mechanical splices and Ribbon cable may also be used with optional parts.

The Uniprise J, K, and L Outside Plant Closures are available in 5.0, 6.5 and 8.0-inch diameters. Each of the closures feature two express ports for midspan access to feeder cables. The ports are mechanical entry as opposed to the drilling/B-Selant style. Encapsulant is not recommended or required to seal the Closure. An O-ring sealed endcap allows for easy re-entry and addition of cables after the initial installation. Optional multi-drop grommets enable multiple drop cables from one port.

Each closure ships with one splice tray and the hardware required to splice two cables together. The J closure ships with a twelve fiber single fusion tray and the K and L closures ship with a twenty-four fiber single fusion tray. Other splice trays are ordered separately to accommodate higher fiber count cables. Optional splice holders are available separately for mechanical or mass fusion applications.

Features & Benefits

- Midspan access/express port
- Single port, multi-drop
- No special tools required
- Flash testing port (air port)
- Security/locking tab
- Optical Ground Wire (OPGW) compatible
- Internal/External grounding and bonding
- No re-entry kit required



OFE-CLS-J-012



OFE-CLS-K-024



OFE-CLS-L-024

OSP Fiber Closures

Specifications

Description	Express Port Sizes (mm)	No. of Express Ports	Drop Port Sizes (mm)	No. of Drop Ports	Closure Length in. (mm)	Closure Diameter	Splice Trays Max	Max Splice Capacity
OFE-CLS-J	25	2	25	2	20.3 (515)	5.0 (130)	4	48
OFE-CLS-K	25	2	25	3	24.5 (600)	6.5 (165)	6	288
OFE-CLS-L	25	2	25	5	28.5 (700)	8.0 (208)	8	384

Ordering Information - Closures

Catalog Number	Description
OFE-CLS-J-012	J Closure, 5.0" OD, 20.3" Long, 2 Drop Ports, (1) 12 Fiber Tray, Maximum 4 Splice Trays
OFE-CLS-K-024	K Closure, 6.5" OD, 24.5" Long, 3 Drop Ports, (1) 24 Fiber Tray, Maximum 6 Splice Trays
OFE-CLS-L-024	L Closure, 8.0" OD, 28.5" Long, 5 Drop Ports, (1) 24 Fiber Tray, Maximum 8 Splice Trays

Ordering Information - Drop Port Grommet

Catalog Number	Description	Qty.	Cable Entries per Grommet	Cable Diameter Range in. (mm)
OFE-CLS-J/K/L-G-ABC	A, B, C grommets (3 sizes for cables 0.39" to 1.0"), splice nut, L bkt., drive piece, tape, knock out plug, grease and additional plugs	3	1	.39-1.0 (10-25)
OFE-CLS-J/K/L-G-2H	Single grommet with 2 holes (0.27" to 0.47" cables), splice nut, L bkt., drive piece, tape, knock out plug, grease and additional plugs	1	2	.27-.47 (7-12)
OFE-CLS-J/K/L-G-4H	Single grommet with 4 holes (0.11" to 0.27" cables), splice nut, L bkt., drive piece, tape, knock out plug, grease and additional plugs	1	4	.11-.27 (3-7)

Ordering Information - Pole/Aerial Mount Hardware

Catalog Number	Description
OFE-CLS-J-MNT-POL/AIR	Mounting Hardware for the OFE-CLS-J for Pole and Aerial Mounting
OFE-CLS-K-MNT-POL/AIR	Mounting Hardware for the OFE-CLS-K for Pole and Aerial Mounting
OFE-CLS-L-MNT-POL/AIR	Mounting Hardware for the OFE-CLS-L for Pole and Aerial Mounting

Ordering Information - Splice Trays

Catalog Number	Description
OFE-CLS-J-SPT-12	Splice Tray for OFE-CLS-J for 12 Single Fusion Splices
OFE-CLS-K/L-SPT-24	Splice Tray for OFE-CLS-K and L for 24 Single Fusion Splices
OFE-CLS-K/L-SPT-48	Splice Tray for OFE-CLS-K and L for 48 Single Fusion Splices

OSP UFE Fiber Closure Kit



All CommScope closures employ a reusable grommet system to seal the closure. Re-entry into the closure is easy and non-destructive to the closure or cable. Through the use of splice trays and cradles, the closures can hold a large array of fiber splices.

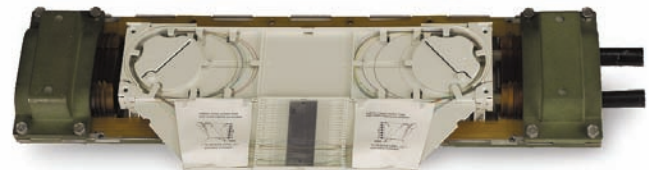
Type U closures can hold up to 192 single fusion splices and up to 24 mass fusion splices (288 total fibers).

The type U closure is a universal closure and can be used for outdoor and indoor applications (check with local building codes). For outdoor use order the outer cover, UFE-CLS-U-CVR.

Depending on the part number ordered, this closure comes with no splice trays, two 24 fiber single fusion splice trays, two 36 fiber single fusion splice trays or two 12 fiber ribbon splice trays. Additional trays and grommets can be ordered separately. Splice sleeves are required.



UFE-CLS-U-048-SFS (closed)



UFE-CLS-U-048-SFS (open)

Catalog Number	Product	Description
Closures		
UFE-CLS-U-048-SFS	Closure	Closure U, for Non-Central Tube Cables with Two MES/SFS Splice Trays and 0.4" to 0.96" Grommets
UFE-CLS-U-072-SFS	Closure	Closure U, for Central Tube Cables with Three MES/SFS Splice Trays and 0.4" to 0.96" Grommets
UFE-CLS-U-288-MFS	Closure	Closure U, for Central Tube Cables with Two Mass Fusion Splice Trays and 0.4" to 0.96" Grommets
UFE-CLS-U-EMT	Closure	Closure U, Empty, does not include grommets or splice trays
Grip & Grommet Kits		
UFE-CLS-U-KIT-GRG-.2/.4	Grommet	Grip and Grommet Kit, UFE-CLS-U for cable OD 0.2" to 0.4"
UFE-CLS-U-KIT-GRG-.4/.96	Grommet	Grip and Grommet Kit, UFE-CLS-U for cable OD 0.4" to 0.96"
Mounting Kits & Accessories		
UFE-CLS-U-MNT-BAR	Mounting Bar	Mounting bar for the UFE-CLS-U
UFE-CLS-U-MNT-BKT	Mounting Bracket	Mounting bracket for the UFE-CLS-U
UFE-CLS-D-SPT-72	Splice Trays	Splice Trays for UFE-CLS-U, Package of 3 Trays for 72 Mechanical or Single Fusion Splices
UFE-CLS-D-SPT-24	Splice Trays	Splice Trays for UFE-CLS-U, for 24 for Mechanical or Single Fusion Splices
UFE-CLS-U-CVR	Cover	Cover for UFE-CLS-U to allow placement in the outside plant
UFE-CLS-U-CVR-RTY	Reentry Kit	Reentry Kit for UFE-CLS-U outer cover
UFE-CLS-U-KIT-SS	Bracket	Special bracket for the UFE-CLS-U
UFE-CLS-U-PVC TUBE	PVC Tubing	PVC tubing for the UFE-CLS-U

F I B E R S O L U T I O N S

ReadyPATCH™ Solution
Assemblies/Terminated Cables
Pre-Terminated Shelves
Enclosures
Panels
Adapters
Connectors
Accessories
Closures
Tool Kits
Cables

Tool Kits

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Fiber Connector Termination & Consumable Kits



The tools and consumables can be ordered to assemble or mount CommScope connectors. The tool kits and consumable kits provide termination tools and consumables for epoxy or anaerobic termination methods.

Catalog Number	Description
Adhesives and Epoxies	
FOT-KIT-CON-EPX	Epoxy, 15 two part epoxy packages - 8 grams each
FOT-KIT-CON-ANA	Anaerobic Bonder, Solventless Primer and Retaining Compound
FOT-KIT-CON-SC/16-100	Consumable kit for SC connectors on 1.6 mm cordage - 100 bulk
FOT-KIT-CON-SC/16-25	Consumable kit for SC connectors on 1.6 mm cordage - 25 bulk
FOT-KIT-CON-ST/16-100	Consumable kit for 100 ST connectors on 1.6 mm cordage - 100 bulk
FOT-KIT-CON-ST/16-25	Consumable kit for ST connectors on 1.6 mm cordage - 25 bulk
FOT-KIT-CON-Paper A	Polishing paper, Type A, Brown - 100 per package
FOT-KIT-CON-Paper B	Polishing paper, Type B, Light Blue - 100 per package
FOT-KIT-CON-Paper D	Polishing paper, Type D, Green - 100 per package
FOT-KIT-CON-Paper E	Polishing paper, Type E, White - 100 per package
FOT-KIT-CON-E6	Polishing Paper, Type E, White, 6" x 6" sheet 0.05 micron 100 per package
FOT-KIT-CON-Paper F	Polishing paper, Type F, Yellow 8"x 8" paper sheets, 1.5micron diamond - 10 per package
FOT-KIT-CON-Paper F-LC	Polishing paper, Type F, Yellow 6"x 6" paper sheets, 1.5micron diamond - 5 per package
FOT-KIT-CON-Paper G	Polishing paper, Type G, Blue Green - 100 per package
FOT-KIT-CON-Paper H	Polishing paper, Type H, Blue Green with Backer, 2 micron - 100 per package
FOT-KIT-CON-Paper J	Polishing paper, Type J, Purple - 20 sheets
FOT-KIT-CON-Paper K	Polishing paper, Type K, Gray - 5 sheets
FOT-KIT-CON-Paper L	Polishing paper, Type L, Purple - 10 sheets
FOT-KIT-CON-Paper Pad	Polishing Pad - 50 per package
FOT-KIT-CON-M-UNIV-100	MM STU/SCU/LCR Unified Polishing consumable kit for approximately 100 SCU/STU or 200 LCR connectors
FOT-KIT-CON-S-UNIV-100	SM STU/SCU/LCR Unified Polishing consumable kit for approximately 100 SCU/STU or 200 LCR connectors
FOT-KIT-CON-H-UNIV-25	SM & MM STU/SCU/LCR Unified Polishing consumable kit for approximately 25 SCU/STU or 50 LCR connectors
FOT-KIT-CON-M-LC-ANA	MM LC Anaerobic consumable kit for approximately 200 connectors
FOT-KIT-CON-M-LC-EPX	MM LC Epoxy consumable kit for approximately 200 connectors
FOT-KIT-CON-S-LC-ANA	SM LC Anaerobic consumable kit for approximately 200 connectors
FOT-KIT-CON-S-LC-EPX	SM LC Epoxy consumable kit for approximately 200 connectors
FOT-KIT-CON-SRG	Package of 10 syringes
FOT-KIT-CON-Tips	Dispensing Tips - 125 per package
FOT-KIT-CON-WIP	Wipes - 250 per package



Fiber Connector Termination & Consumable Kits



Catalog Number	Description
Tools	
FOT-KIT-TOL-SC/ST/LC-ANA	SC, ST & LC tool kit to mount connectors using anaerobic adhesive on 900 um buffered fiber BTW
FOT-KIT-TOL-SC/ST/LC-Qwik	SCQ, STQ, LCQ, Tool Kit to mount Qwik Connectors on buffered fiber BTW
FOT-KIT-TOL-CLEAVE	Connector Cleaving Tool - Pen Type
FOT-KIT-TOL-LC-Crimp	LC Crimping Tool
FOT-KIT-TOL-LC Polish	LC Polishing Tool
FOT-KIT-TOL-LC Scope	LC Microscope
FOT-KIT-TOL-LC-Sguide	LC Connector Stripping Guide
FOT-KIT-TOL-LC-UPG	LC tools to add to ST/SC kit to use on buffer fiber
FOT-KIT-TOL-SC/ST Crimp	SC/ST Crimping Tool
FOT-KIT-TOL-SC/ST Polish	SC/ST Polishing Tool
FOT-KIT-TOL-SC/ST-adapter	Microscope Adapter for SC & ST connectors
FOT-KIT-TOL-SC/ST-EPX	Epoxy Tool Kit for SC & ST connectors
FOT-KIT-TOL-ST/SC-JUMP	ST & SC tool kit to mount connectors using anaerobic adhesive on buffer and cordage
FOT-KIT-TOL-STRIP Buffer	Buffer Stripping Tool
FOT-KIT-TOL-STRIP Cable	Cable Stripping Tool
Accessories	
OFE-CLS-KIT-ENCAP	Reentry Encapsulant Wrap Kit
KIT-SEALANT	Additional B Sealant for reentry of OFE-CLS Closures
FOT-KIT-SC-CLP	Duplex Clips, clips that attach to SC connectors to make a duplex connector - 10 per package

Uniprise

Copper

Tool Kits

Coax

Multi-Conductor

Conduit

Packaging

Glossary/Index

Fiber Furcation Kits & Clamps

Catalog Number - Furcation Kits	Description
KIT-090-006	6 fiber buffer fan out for stranded loose tube cables kit - 24" breakout
KIT-090-012	12 fiber buffer fan out for stranded loose tube cables kit - 24" breakout
KIT-090-BO	Furcation kit that provides buffer material for loose tube cables
KIT-090-006-CT	6 fiber buffer fan out kit for central tube cables - 36" breakout*
KIT-090-012-CT	12 fiber buffer fan out kit for central tube cables - 36" breakout*
KIT-090-024-CT	24 fiber buffer fan out kit for central tube cables - 36" breakout*
KIT-090-036-CT	36 fiber buffer fan out kit for central tube cables - 36" breakout*

* Tubes are color coded

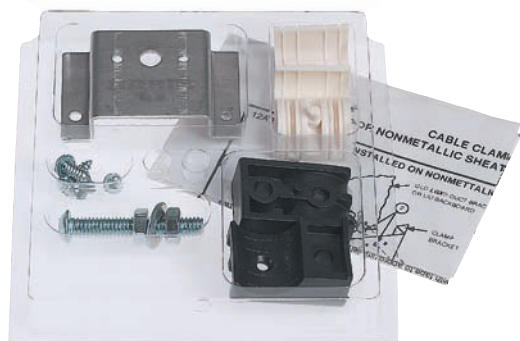
Catalog Number - Cable Clamps	Description
KIT-CBL-CLP	Cable Clamp for dielectric cable
KIT-CBL-CLP-ARM	Cable Clamp for armored cable



KIT-090-BO



KIT-090-012



KIT-CBL-CLP

F I B E R S O L U T I O N S

ReadyPATCH™ Solution
Assemblies/Terminated Cables
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Cables

Cables

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CommScope Fiber Optic Cables



Proven Quality and Performance

In the past thirty years, fiber optic cables have evolved from a laboratory novelty to become an indispensable necessity on the communication superhighway. The superior bandwidth and versatility of fiber optic make it the transmission medium of choice for a variety of communication applications.

CommScope offers three families of fiber optic cables to be used anywhere in the communication hierarchy: Outside Plant, Indoor/Outdoor and Premises.

Outside plant cables for standard and rugged environments

For direct buried, underground duct and aerial installations, CommScope offers several designs, which include a variety of loose tube cables, from all-dielectric to heavy duty double armored, triple-jacketed cables. Design options include: Drop Armored, a smaller, lighter weight cable for use when space is at a minimum; Central Tube for point-to-point installations; or Stranded Loose Tube. CommScope also offers fiber optic Pavement Cable, which can be easily installed for non-obtrusive placement in asphalt or concrete substrates. Any of these cables may be pre-installed in high-strength OSP conduit. From ARID-CORE® loose tube cables containing gel-filled buffer tubes to totally gel-free designs CommScope has cables that fit your application.

Indoor/outdoor cables for strength and safety (including zero-halogen types)

CommScope's design for these hybrid application cables offers construction and jacketing suitable for outside usage yet comply with NEC/CEC riser (OFNR) and plenum (OFNP) flame safety standards. This design allows you to run cable through the building entrance without having to terminate or splice different cables together, resulting in significant savings of time and labor. Cable types include Central Tube (riser), standard and heavy-duty Stranded Loose Tube (riser and plenum); cordage (riser/LSZH); and tight buffered distribution (riser/LSZH and plenum).

Premises cables for safety and performance

CommScope's premises cables are designed to handle the requirements of indoor applications, including NEC/CEC flame safety ratings of riser (OFNR) and plenum (OFNP). CommScope offers a variety of distribution and cordage cables. All CommScope premises distribution cables are

offered with FiberGuard, an optional aluminum interlocking armor with a jacket matching the flame rating of the cable. CommScope also offers heavy-duty distribution cables that provide additional fiber protection.

Fiber Optic Components

CommScope offers an innovative line of optical components for premise and outside plant applications. This product line includes connectors, adapters, enclosures, panels, fanouts, closures, preconnectorized cable and jumpers.

Test reports - a higher standard for higher speeds

Every reel of CommScope fiber optic cable is subjected to stringent testing throughout the entire manufacturing process. Our state-of-the-art process controls and testing systems insure that every foot of CommScope cable consistently meets or exceeds our high standards.

To prove that our fiber optic cables exceed industry standards, we go to the extra step of attaching the individual cable test report to every reel. You get proof-positive that the cable you purchase will perform to the level you require.

Uniprise is known for high quality products, cabling solutions and service. WebTrak® is an on-line certified report system for Uniprise Twisted Pair and Fiber Optic cables. Online test reports are available for all UltraPipe®, UltraMedia®, Media 6®, Ultra II®, and DataPipe® series Uniprise cables and all fiber optic cables.

Remember, a network is only as good as the cable that connects it. Specify the cables that allow networks to communicate: Fiber optic cables from CommScope.

Detailed product specification sheets are available at the download area of our website.

The image shows a sample 'Fiber Optic Cable Test Report' form. It includes fields for 'Product Code', 'Product Description', 'Lot No.', 'Date Tested', and 'Tester'. Below these are several tables of test results, including 'Table 1: Fiber Loss', 'Table 2: Fiber Break', 'Table 3: Fiber Bend', and 'Table 4: Fiber Tension'. Each table has columns for 'Test Item', 'Unit', and 'Result'. The form also has a section for 'Remarks' and a signature line.

Fiber Optic Numbering Key

P	- 012 -	DS	- 5L -	F	SU	AQ	Sample Part Number
Position 1	Position 2	Position 3	Position 4	Position 5	Position 6	Position 7	

Position 1: Cable Style **P - 012 - DS - 5L - FSUAQ**

D All Dry Outdoor	Z Non-Halogen Indoor/Outdoor	O Outdoor (Arid Core®)
M Messenger	P Plenum	S Outdoor (All Dielectric, Self-Supporting)
N Zero Halogen (Indoor Only)	R Riser	

Position 2: Fiber Count **P - 012 - DS - 5L - FSUAQ**

Total Fiber Count (XXX variable in catalog number.)

Position 3: Cable Construction **P - 012 - DS - 5L - FSUAQ****Outdoor Cable Constructions**

LA Stranded Loose Tube Armored	DA Drop Armored	CP Central Tube Pavement
LN Stranded Loose Tube Non Armored All Dielectric	DF Flat Drop All-Dielectric	MN Mini-drop All Dielectric
LD Stranded Loose Tube All Dielectric/Dual Jacket	DN Drop All Dielectric	
L2 Stranded Loose Tube Dual Jacket/Single Armor	CN Central Tube Non Armored All Dielectric	
L3 Stranded Loose Tube Triple Jacket/Dual Armor	CA Central Tube Armored	

Indoor & Indoor/Outdoor Cable Constructions**Tight Buffer**

DS Distribution	IC Interconnect
ZC Zipcord	

Loose Tube

LN Stranded Loose Tube Non Armored All Dielectric	OD I/O Plenum Distribution
LH Stranded Loose Tube Heavy Duty Non Armored	CN Central Tube All Dielectric

FiberGuard™ For tight buffered cables only, use first character of the construction code above plus one of the following:**Z** Aluminum Armor w/Jacket**Position 4: Fiber Type** **P - 012 - DS - 5L - FSUAQ**

8W single-mode	5M 50µm, LaserCore® 150, multimode	5K 50µm, LaserCore® 500, multimode
6F 62.5/125µm FDDI Grade, multimode	5L 50µm, LaserCore® 300, multimode	

CM Composite (single-mode & multimode), **HY** Hybrid (fiber, copper, & coax)

*XY variable in catalog number

Position 5: Jacket Print **P - 012 - DS - 5L - FSUAQ**

F Printed in Feet (Standard)	M Printed in Meters	X Special Print
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Position 6: Miscellaneous Values **P - 012 - DS - 5L - FSUAQ**

For cordage, value indicates outside diameter; otherwise additional description

01-12 Fiber Count per Subunit	SU Single Unit	MU Multi Unit
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Cordage

16 1.6mm Jacket OD	20 2.0mm Jacket	25 2.5mm Jacket OD	29 2.9mm Jacket OD
---------------------------	------------------------	---------------------------	---------------------------

Position 7: Color Field **P - 012 - DS - 5L - FSUAQ**

For Outdoor Cables, this field designates color of stripe/tracer. Outdoor Cables are manufactured with a standard black jacket — No Stripe (NS). Stripes (tracers) are also available in the following colors (min. order required):

BL Blue	OR Orange	GR Green	BR Brown	SL Slate	WH White
RD Red	BK Black	YL Yellow	VI Violet	RS Rose	AQ Aqua

For Premises, Indoor/Outdoor or Outdoor Tight Buffer Cables, this field indicates jacket color. Standard jacket colors:

BK Black for Indoor/Outdoor and Tight Buffer Outdoor	YL Yellow for single-mode
OR Orange for 62.5 Multimode & Composite	AQ Aqua for LaserCore & LaserCore Composites

*ZZ variable in catalog number.

Available Non Standard jacket colors: (min. order required)

BL Blue	OR Orange	GR Green	BR Brown	SL Slate	WH White
RD Red	BK Black	YL Yellow	VI Violet	RS Rose	AQ Aqua

Positions 8-11: When Position 4 is CM **P - 012 - DS - CM - FSUAQ****8W 006 5L 006**

Position 8: First Fiber Type	Position 10: Second Fiber Type	Pos. 8	Pos. 9	Pos. 10	Pos. 11
Position 9: First Fiber Count	Position 11: Second Fiber Count				

When single-mode and multimode fibers are used in a composite, then single-mode is positioned first

Positions 8-11: When Position 4 is HY **O - 012 - DN - HY - F12NS****8W 006 F6SSBW GSM 40T**

Position 8: Fiber Type	Position 10: Copper Type	Position 12: Tube Size	Pos. 8	Pos. 9	Pos. 10	Pos. 11	Pos. 12
Position 9: Fiber Count	Position 11: Messenger Description						

When no messenger is present, Tube Size moves to Position 11 and there is no Position 12. See individual Hybrid pages for complete descriptions.

Available in all CommScope Cable Types

LaserCore 500 Type 5K Optical Fiber: 50 micron Multimode Fiber**Physical Characteristics**

Core Diameter	50.0 ± 2.5 μm
Cladding Diameter	125 ± 1.0 μm
Core/Clad Offset	≤ 1.5 μm
Coating Diameter (uncolored)	245 ± 10 μm
Coating Diameter (colored)	254 ± 7 μm
Coating/Cladding Concentricity Error, max.	6 μm
Clad Non-Circularity	≤ 1%

Mechanical Characteristics

Proof test	100kpsi (.69 Gpa)
Coating Strip Force	0.3 - 2.0 lbf (1.3 - 8.9 N)
Dynamic Fatigue Parameter (nd)	≥ 18
Macrobend 100 turns @ 75mm mandrel	
850 nm	0.50 dB max.
1300 nm	0.50 dB max.

Optical Characteristics, Wavelength Specific

Attenuation, Loose Tube Cable - Max.	
850 nm	3.0 dB/km
1300 nm	1.0 dB/km
Attenuation, Tight Buffer Cable - Max.	
850 nm	3.0 dB/km
1300 nm	1.0 dB/km
Bandwidth, OFL	
850 nm	3500 MHz - km
1300 nm	500 MHz - km
Bandwidth, EMB	
850 nm	4700 MHz - km
1300 nm	500 MHz - km
Differential Mode Delay, Max	
850 nm	per TIA-492AAAC-A
1300 nm	0.88 ps/m
Group Refractive Index	
850 nm	1.483
1300 nm	1.479
1 GB Ethernet Distance	
850 nm	1100 m
1300 nm	600 m
10 GB Ethernet Distance*	
850 nm	550 m
1300 nm	220 m

Optical Characteristics, General

Numerical Aperture	0.200 ± 0.015 μm
Point Defects, max	0.15 dB
Zero Dispersion Wavelength	1295 - 1316 nm
Zero Dispersion Slope	0.105 ps/[km-nm-nm]

Environmental Characteristics

Temperature Dependence -60°C to +85°C	≤ 0.1 dB
Temperature Humidity Cycling -10°C to 85°C up to 95% RH	≤ 0.1 dB
Water Immersion, 23°C	≤ 0.2 dB
Heat Aging, 85°C	≤ 0.2 dB

*Compliant with IEEE 802.3ae standards for 10 GB Ethernet transmission at the 850 nm window.

Available in all CommScope Cable Types

LaserCore 300 Type 5L Optical Fiber: 50 micron Multimode Fiber

Physical Characteristics

Core Diameter	50.0 ± 2.5 µm
Cladding Diameter	125 ± 1.0 µm
Core/Clad Offset	≤ 1.5 µm
Coating Diameter (uncolored)	245 ± 10 µm
Coating Diameter (colored)	255 ± 7 µm
Coating/Cladding Concentricity Error, max.	6 µm
Clad Non-Circularity	≤ 1%

Mechanical Characteristics

Proof test	100kpsi (.69 Gpa)
Coating Strip Force	0.3 - 2.0 lbf (1.3 - 8.9 N)
Dynamic Fatigue Parameter (nd)	≥ 18
Macrobend 100 turns @ 75mm mandrel	
850 nm	0.50 dB max.
1300 nm	0.50 dB max.

Optical Characteristics, Wavelength Specific

Attenuation, Loose Tube Cable - Max.

850 nm	3.0 dB/km
1300 nm	1.0 dB/km

Attenuation, Tight Buffer Cable - Max.

850 nm	3.0 dB/km
1300 nm	1.0 dB/km

Bandwidth, OFL

850 nm	1500 MHz - km
1300 nm	500 MHz - km

Bandwidth, EMB

850 nm	2000 MHz - km
1300 nm	500 MHz - km

Differential Mode Delay, Max

850 nm	per TIA-492AAAC
1300 nm	0.88 ps/m

Group Refractive Index

850 nm	1.483
1300 nm	1.479

1 GB Ethernet Distance

850 nm	1020 m
1300 nm	600 m

10 GB Ethernet Distance*

850 nm	300 m
1300 nm	220 m

Optical Characteristics, General

Numerical Aperture	0.200 ± 0.015
Point Defects, max	0.15 dB
Zero Dispersion Wavelength	1295 - 1316 nm
Zero Dispersion Slope	0.105 ps/(km-nm-nm)

Environmental Characteristics

Temperature Dependence -60°C to +85°C	≤ 0.1 dB
Temperature Humidity Cycling -10°C to 85°C up to 95% RH	≤ 0.1 dB
Water Immersion, 23°C	≤ 0.2 dB
Heat Aging, 85°C	≤ 0.2 dB

*Compliant with IEEE 802.3ae standards for 10 GB Ethernet transmission at the 850 nm window.

Available in all CommScope Cable Types

LaserCore 150 Type 5M Optical Fiber: 50 micron Multimode Fiber
Physical Characteristics

Core Diameter	50.0 ± 2.5 μm
Cladding Diameter	125 ± 1.0 μm
Core/Clad Offset	≤ 1.5 μm
Coating Diameter (uncolored)	245 ± 10 μm
Coating Diameter (colored)	255 ± 7 μm
Coating/Cladding Concentricity Error, max.	6 μm
Clad Non-Circularity	≤ 1%

Mechanical Characteristics

Proof test	100kpsi (.69 Gpa)
Coating Strip Force	0.3 - 2.0 lbf (1.3 - 8.9 N)
Dynamic Fatigue Parameter (nd)	≥ 18
Macro bend 100 turns @ 75mm mandrel	
850 nm	0.50 dB max.
1300 nm	0.50 dB max.

Optical Characteristics, Wavelength Specific

Attenuation, Loose Tube Cable - Max.	
850 nm	3.0 dB/km
1300 nm	1.0 dB/km
Attenuation, Tight Buffer Cable - Max.	
850 nm	3.0 dB/km
1300 nm	1.0 dB/km
Bandwidth, OFL	
850 nm	700 MHz - km
1300 nm	500 MHz - km
Bandwidth, EMB	
850 nm	950 MHz - km
1300 nm	500 MHz - km
Differential Mode Delay, Max	
850 nm	0.70 ps/m
1300 nm	0.88 ps/m
Group Refractive Index	
850 nm	1.483
1300 nm	1.479
1 GB Ethernet Distance	
850 nm	800 m
1300 nm	600 m
10 GB Ethernet Distance	
850 nm	150 m
1300 nm	220 m

Optical Characteristics, General

Numerical Aperture	0.200 ± 0.015 μm
Point Defects, max	0.15 μm
Zero Dispersion Wavelength	1295 - 1316 nm
Zero Dispersion Slope	0.105 ps/[km-nm-nm]

Environmental Characteristics

Temperature Dependence -60°C to +85°C	≤ 0.1 dB
Temperature Humidity Cycling -10°C to 85°C up to 95% RH	≤ 0.1 dB
Water Immersion, 23°C	≤ 0.2 dB
Heat Aging, 85°C	≤ 0.2 dB

Type 6F Multimode Fiber Specifications

Available in all CommScope Cable Types

Type 6F Optical Fiber: 62.5 micron, FDDI Grade Multimode Fiber

Physical Characteristics	
Core Diameter	62.5 ± 2.5 μm
Cladding Diameter	125 ± 1.0 μm
Core/Clad Offset	≤ 1.5 μm
Coating Diameter (uncolored)	245 ± 10 μm
Coating Diameter (colored)	254 ± 7 μm
Coating/Cladding Concentricity Error, max.	8 μm
Clad Non-Circularity	≤ 1%
Mechanical Characteristics	
Proof test	100kpsi (.69 Gpa)
Coating Strip Force	0.3 - 2.0 lbf (1.3 - 8.9 N)
Dynamic Fatigue Parameter (nd)	≥ 18
Macrobend 100 turns @ 75mm mandrel	
850 nm	0.50 dB max.
1300 nm	0.50 dB max.
Optical Characteristics, Wavelength Specific	
Attenuation, Loose Tube Cable - Max.	
850 nm	3.0 dB/km
1300 nm	1.0 dB/km
Attenuation, Tight Buffer Cable - Max.	
850 nm	3.5 dB/km
1300 nm	1.5 dB/km
Bandwidth, OFL	
850 nm	200 MHz - km
1300 nm	500 MHz - km
Group Refractive Index	
850 nm	1.496
1300 nm	1.491
1 GB Ethernet Distance	
850 nm	300 m
1300 nm	600 m
10 GB Ethernet Distance	
850 nm	33 m
1300 nm	220 m
Optical Characteristics, General	
Numerical Aperture	0.275 ± 0.015
Point Defects, max	0.15 dB
Zero Dispersion Wavelength	1320 - 1365 nm
Zero Dispersion Slope	0.11 ps/(km-nm-nm)
Environmental Characteristics	
Temperature Dependence -60°C to +85°C	≤ 0.2 dB
Temperature Humidity Cycling -10°C to 85°C up to 95% RH	≤ 0.2 dB
Water Immersion, 23°C	≤ 0.2 dB
Heat Aging, 85°C	≤ 0.2 dB

Uniprise

Copper

Cables

Coax

Multi-Conductor

Conduit

Packaging

Glossary/Index

Available in all CommScope Cable Types

LightScope ZWP Type 8W Optical Fiber: Dispersion-Unshifted, Matched-Clad Single-Mode Fiber**Physical Characteristics**

Cladding Diameter	125 ± 0.7 μm
Core/Clad Offset	≤ 0.5 μm
Coating Diameter (uncolored)	245 ± 10 μm
Coating Diameter (colored)	254 ± 8 μm
Coating/Cladding Concentricity Error, max.	12 μm
Clad Non-Circularity	≤ 1%

Mechanical Characteristics

Proof test	100kpsi (.69 GPa)
Coating Strip Force	0.3 - 2.0 lbf (1.3 - 8.9 N)
Fiber Curl	≥ 4 m
Dynamic Fatigue Parameter (nd)	≥ 18
Macrobend 100 turns @ 50mm mandrel	
1550 nm	0.05 dB max.
Macrobend 1 turn @ 32mm mandrel	
1550 nm	0.05 dB max.

Optical Characteristics, Wavelength Specific

Attenuation, Loose Tube Cable	
1310 nm	0.34 dB/km
1385 nm	0.31 dB/km
1550 nm	0.22 dB/km
Attenuation, Tight Buffer Cable	
1310 nm	0.70 dB/km
1385 nm	0.70 dB/km
1550 nm	0.70 dB/km
Mode Field Diameter	
1310 nm	9.2 ± 0.3 μm
1385 nm	9.6 ± 0.6 μm
1550 nm	10.4 ± 0.5 μm
Group Refractive Index	
1310 nm	1.467
1385 nm	1.468
1550 nm	1.468
Backscatter Coefficients	
1310 nm	-79.6 for 1 ns pulse width
1550 nm	-82.1 for 1 ns pulse width
Dispersion	
1310 nm	3.5 ps/(nm-km) from 1285 to 1330 nm
1550 nm	18 ps/(nm-km)

Optical Characteristics, General

Point Defects	0.10 dB
Cutoff Wavelength	≤ 1260
Zero Dispersion Wavelength	1302 - 1322 nm
Zero Dispersion Slope	0.090 ps/(km-nm-nm)
Polarization Mode Dispersion Link Design Value	≤ 0.06 ps/sqrt(km)

Environmental Characteristics

Temperature Dependence -60°C to +85°C	≤ 0.05 dB
Temperature Humidity Cycling -10°C to 85°C up to 95% RH	≤ 0.05 dB
Water Immersion, 23°C	≤ 0.05 dB
Heat Aging, 85°C	≤ 0.05 dB

Premises Cables



Riser and Plenum-Rated Designs for Indoor Applications

CommScope premises cables are engineered with three goals in mind - excellent mechanical and optical performance, coupled with superior fire safety ratings. These goals are achieved in a family of cables that meet all critical NEC/CEC requirements for riser or plenum applications while offering resistance to installation and termination stresses.

Our distribution cables are a perfect example of this achievement. Constructions are engineered to be up to 30% smaller in diameter and up to 50% lighter than comparable products. The result is a compact cable that installs and terminates easily.

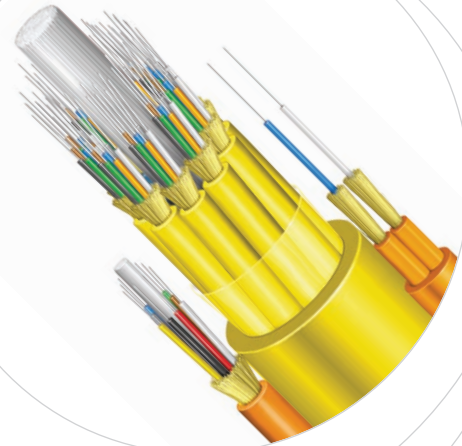
Premises fiber optic cables meet or exceed performance standards as established by Telcordia GR-409, TIA/EIA 568B, ICEA 83-596, ANSI X3.166-1990 & X3T9.5 PMD, FDDI, ATM, Fibre Channel and HIPPI.

We offer several constructions, which include:

Riser and Plenum Distribution cables of up to 144 fibers in a lightweight and compact construction.

Riser Low Smoke/Zero-Halogen Distribution cables of up to 72 fibers which can be used outdoor as well, thus eliminating the need to change cable types at the building entrance.

Riser, Plenum and Riser LSZH Cordage in simplex, zipcord and two-fiber interconnect.



Uniprise

Copper

Cables

Coax

Multi-Conductor

Conduit

Packaging

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Riser and Plenum Distribution Products

Rapid Ship Program




FastFiber products available in 50 micron, 62.5 micron and single-mode


Rules and Guidelines:

- Maximum order quantity per customer, per product, per day is 2 kms (or 6,560 ft.)
- Continental U.S. freight allowed on orders of \$5000 or more (other than Alaska & Hawaii)
- Minimum cut length is 250 ft.
- Pull and cut charges are FREE on available FastFiber products
- Orders placed by 12 noon Eastern on Friday will be available for shipment the following Monday
- 48 hour turn around
- Reels are non-returnable and non-refundable

FastFiber™ Riser & Plenum Distribution Products


Cable Type	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Unloaded inch/cm	Max. Tensile Load Short Term lbs./Newton	Long Term lbs./Newton	Weight lbs/ 1000'	kg/ 1000'
 Riser Distribution	R-006-DS-6F-FSUOR	.20/5.1	4.1/10.3	2.0/5.1	300/1335	90/400	15	22
	R-012-DS-6F-FSUOR	.24/6.0	4.7/12.1	2.4/6.0	300/1335	90/400	22	32
	R-024-DS-6F-FSUOR	.33/8.4	6.6/16.7	3.3/8.4	300/1335	90/400	38	56
	R-012-DS-8W-FSUYL	.24/6.0	4.7/12.1	2.4/6.0	300/1335	90/400	22	32
Plenum Distribution	P-006-DS-6F-FSUOR	.19/4.8	3.8/9.7	1.9/4.8	300/1335	90/400	15	22
	P-012-DS-6F-FSUOR	.23/5.8	4.6/11.7	2.3/5.8	300/1335	90/400	21	31
	P-024-DS-6F-FSUOR	.33/8.5	6.7/16.9	3.3/8.5	300/1335	90/400	47	70
	P-006-DS-8W-FSUYL	.19/4.8	3.8/9.7	1.9/4.8	300/1335	90/400	15	22
	P-012-DS-8W-FSUYL	.23/5.8	4.6/11.7	2.3/5.8	300/1335	90/400	21	31
	P-024-DS-8W-FSUYL	.33/8.5	6.7/16.9	3.3/8.5	300/1335	90/400	47	70
	P-012-DS-5M-FSUAQ	.23/5.8	4.6/11.7	2.3/5.8	300/1335	90/400	21	31
	P-006-DS-5L-FSUAQ	.19/4.8	3.8/9.7	1.9/4.8	300/1335	90/400	15	22
	P-012-DS-5L-FSUAQ	.23/5.8	4.6/11.7	2.3/5.8	300/1335	90/400	21	31
	P-006-DS-5M-FSUAQ	.19/4.8	3.8/9.7	1.9/4.8	300/1335	90/400	15	22

FastFiber™ Low Smoke Zero Halogen

Cable Type	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Unloaded inch/cm	Max. Tensile Load Short Term lbs./Newton	Long Term lbs./Newton	Weight lbs/ 1000'	kg/ 1000'
 LSZH	Z-012-DS-6F-FSUBK	.28/7.2	5.6/14.2	2.8/7.1	400/1780	120/534	33	49

FastFiber™ FiberGuard™ Interlocking Armored Cables

- These cables are protected with an interlocking armor to shield against damage
- Aluminum interlocking armor, with overall jacket
- NEC/CEC compliant
- Outstanding mechanical protection for sensitive cables combined with excellent flexibility

Cable Type	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Unloaded inch/cm	Max. Tensile Load Short Term lbs./Newton	Long Term lbs./Newton	Weight lbs/ 1000'	kg/ 1000'
	P-012-DZ-8W-FSUYL	.51/12.8	10.1/25.7	7.1/18.0	300/1335	90/400	101	151
	P-006-DZ-6F-FSUOR	.51/12.8	10.1/25.7	7.1/18.0	300/1335	90/400	95	142
	P-012-DZ-6F-FSUOR	.51/12.8	10.1/25.7	7.1/18.0	300/1335	90/400	101	151
	P-012-DZ-5L-FSUAQ	.51/12.8	10.1/25.7	7.1/18.0	300/1335	90/400	101	151

Premises Riser Single Unit Distribution

Meets critical NEC/CEC riser (OFNR) safety standards
Numbered subunits and color-coded fibers help ease installation

Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load Short term lbs./ Newtons	Max. Tensile Load Long term lbs./ Newtons	Weight lbs./ 1000'	Weight kg/ 1000m
4 Fiber	R-004-DS-XY-FSUZZ	.19/4.8	3.8/9.5	1.9/4.8	300/1335	90/400	13.1	19.4
6 Fiber	R-006-DS-XY-FSUZZ	.20/5.1	4.1/10.3	2.0/5.1	300/1335	90/400	15.2	22.7
8 Fiber	R-008-DS-XY-FSUZZ	.22/5.5	4.3/11.0	2.2/5.5	300/1335	90/400	17.2	25.7
12 Fiber	R-012-DS-XY-FSUZZ	.24/6.0	4.7/12.1	2.4/6.0	300/1335	90/400	21.7	32.2
18 Fiber	R-018-DS-XY-FSUZZ	.30/7.7	6.0/15.4	3.0/7.7	300/1335	90/400	32.1	47.7
24 Fiber	R-024-DS-XY-FSUZZ	.33/8.4	6.6/16.7	3.3/8.4	300/1335	90/400	37.9	56.4
Single-mode/Multimode Composite (2 - 24 fiber)	R-XXX-DS-CM-FSUXX/AAaaa/BBbbb	Custom design - sizes/specs will vary depending on fiber count						

Variables in the Catalog Number:

XXX = Total Fiber Count

XY = Fiber Grade

8W (single-mode)

6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)

5L (LaserCore 300, 50μm, multimode)

5K (LaserCore 500, 50μm, multimode)

ZZ = Standard Jacket Color

OR (Orange- Multimode or composite containing multimode)

AQ (Aqua- LaserCore or composite containing LaserCore)

YL (Yellow- Single-mode or composite containing single-mode)

Minimum order required for special colors.

For Composites Only:

aaa is replaced with single-mode fiber count

AA is replaced with single-mode type

bbb is replaced by multimode fiber count

BB is replaced by multimode type

Fiber identification colors:

1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua
Fibers 13-24 repeat color sequence with tracer stripe.

Riser Distribution Single Unit Cables

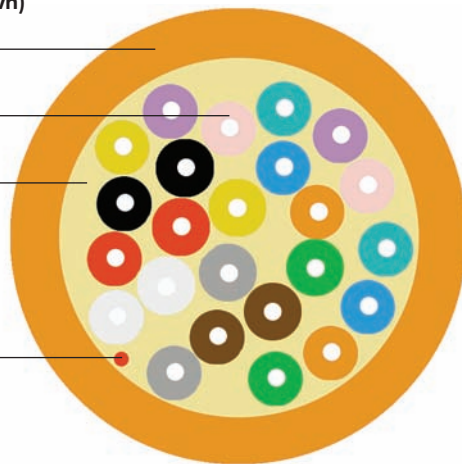
(24 fiber version shown)

Riser-rated
jacket

900μm tight-buffered
250μm fiber

Aramid Yarn

Ripcord



Mechanical Properties

Description	Specification
Operating Temp.	-20 to 70°C
Installation Temp.	-20 to 70°C
Storage Temp.	-40 to 70°C
Crush Resistance	Exceeds 57 lbf/in (10 N/mm)
Impact Resistance	Exceeds 4.34 lbf-ft (5.88 N-m)
Flexing	Exceeds 100 cycles
Twist/Bend	Exceeds

Specifications subject to change without notice.

Premises Riser Multi Unit Distribution

Meets critical NEC/CEC riser (OFNR) safety standards

Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load Short term lbs./ Newtons	Max. Tensile Load Long term lbs./Newtons	Weight lbs/ 1000'	Weight kg/ 1000m
36 Fiber (3 subunits)	R-036-DS-XY-FMUZZ	.58/14.6	11.5/29.3	5.8/14.6	800/3560	240/1068	112	167
48 Fiber (4 subunits)	R-048-DS-XY-FMUZZ	.63/16.1	12.7/32.2	6.3/16.1	800/3560	240/1068	143	212
60 Fiber (5 subunits)	R-060-DS-XY-FMUZZ	.71/18.0	14.2/36.1	7.1/18.0	1000/4450	300/1335	188	279
72 Fiber (6 subunits)	R-072-DS-XY-FMUZZ	.79/20.0	15.8/40.1	7.9/20.0	1000/4450	300/1335	232	345
96 Fiber (8 subunits)	R-096-DS-XY-FMUZZ	.93/23.7	18.7/47.5	9.3/23.7	1000/4450	300/1335	337	502
144 Fiber (12 subunits)	R-144-DS-XY-FMUZZ	1.03/26.1	20.5/52.2	10.3/26.1	1000/4450	300/1335	350	522
Single-mode/Multimode Composite (18-144 fiber)	R-XXX-DS-CM-FMUZZ/AAaaa/BBbbb Custom design - sizes/specs will vary depending on fiber count							

Variables in the Catalog Number:

XXX = Total Fiber Count

XY = Fiber Grade

8W (single-mode)
6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)
5L (LaserCore 300, 50μm, multimode)
5K (LaserCore 500, 50μm, multimode)

ZZ = Standard Jacket Color

OR (Orange- Multimode or composite containing multimode)
AQ (Aqua- LaserCore or composite containing LaserCore)

YL (Yellow- Single-mode or composite containing single-mode)
Minimum order required for special colors.

For Composites Only:

aaa is replaced with single-mode fiber count
AA is replaced with single-mode type

bbb is replaced by multimode fiber count
BB is replaced by multimode type

Fiber identification colors:

1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua
Colored Subunits - Subunits are individually color coded for easy identification

Riser Distribution Cables

(72 and 12 fiber versions shown)

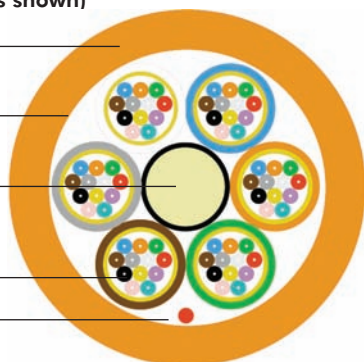
Riser-rated
jacket

Core Wrap Tape

Dielectric central member
(with overcoat)

12 fiber subunit with
900μm tight-buffered
250μm fiber

Ripcord



Mechanical Properties

Description	Specification
Operating Temp.	-20 to 70°C
Installation Temp.	-20 to 70°C
Storage Temp.	-40 to 70°C
Crush Resistance	Exceeds 57 lbf/in (10 N/mm)
Impact Resistance	Exceeds 4.34 lbf-ft (5.88 N-m)
Flexing	Exceeds 100 cycles
Twist/Bend	Exceeds

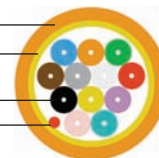
12 Fiber Unit

Riser-rated jacket

Aramid yarn

900μm tight-buffered 250μm fiber

Ripcord



Specifications subject to change without notice.

Premises Plenum Single Unit Distribution

Meets critical NEC/CEC plenum (OFNP) safety standards
Numbered subunits and color-coded fibers help ease installation

Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load Short term lbs./ Newtons	Max. Tensile Load Long term lbs./ Newtons	Weight lbs/1000' kg/1000m
2 Fiber	P-002-DS-XY-FSUZZ	.15/3.9	3.1/7.8	1.5/3.9	225/1001	68/300	8.8 13.1
4 Fiber	P-004-DS-XY-FSUZZ	.17/4.4	3.4/8.7	1.7/4.4	300/1335	90/400	12.2 18.2
6 Fiber	P-006-DS-XY-FSUZZ	.19/4.8	3.8/9.7	1.9/4.8	300/1335	90/400	15.1 22.5
8 Fiber	P-008-DS-XY-FSUZZ	.20/5.1	4.0/10.2	2.0/5.1	300/1335	90/400	16.8 24.9
12 Fiber	P-012-DS-XY-FSUZZ	.23/5.8	4.6/11.7	2.3/5.8	300/1335	90/400	20.8 30.9
18 Fiber	P-018-DS-XY-FSUZZ	.31/7.9	6.2/15.8	3.1/7.9	300/1335	90/400	40.9 60.9
24 Fiber	P-024-DS-XY-FSUZZ	.33/8.5	6.7/16.9	3.3/8.5	300/1335	90/400	47.3 70.4
Single-mode/Multimode Composite (2 - 24 fiber)	P-XXX-DS-CM-FSUX/AAaaa/BBbbb	Custom design - sizes/specs will vary depending on fiber count					

Variables in the Catalog Number:
XXX = Total Fiber Count

XY = Fiber Grade

8W (single-mode)
6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)
5L (LaserCore 300, 50μm, multimode)
5K (LaserCore 500, 50μm, multimode)

ZZ = Standard Jacket Color

OR (Orange- Multimode or composite containing multimode)
AQ (Aqua- LaserCore or composite containing LaserCore)

YL (Yellow- Single-mode or composite containing single-mode)
Minimum order required for special colors.

For Composites Only:

aaa is replaced with single-mode fiber count
AA is replaced with single-mode type

bbb is replaced by multimode fiber count
BB is replaced by multimode type

Fiber identification colors:

1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua
Fibers 13-24 repeat color sequence with tracer stripe.

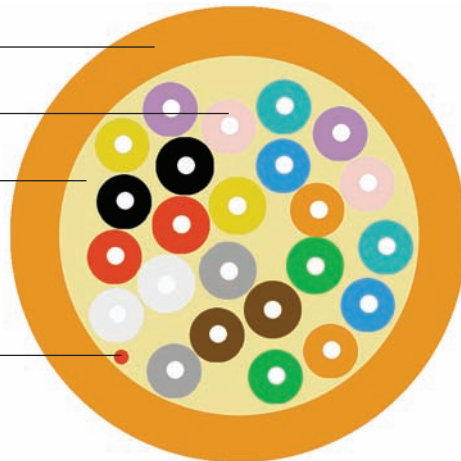
Plenum Distribution Single Unit Cables (24 fiber version shown)

Plenum-rated jacket

900μm tight-buffered
250μm fiber

Aramid Yarn

Ripcord



Mechanical Properties

Description	Specification
Operating Temp.	-20 to 70°C
Installation Temp.	0 to 70°C
Storage Temp.	-40 to 70°C
Crush Resistance	Exceeds 57 lbf/in (10 N/mm)
Impact Resistance	Exceeds 4.34 lbf-ft (5.88 N-m)
Flexing	Exceeds 100 cycles
Twist/Bend	Exceeds

Specifications subject to change without notice.

Premises Plenum Multi Unit Distribution

Meets critical NEC/CEC plenum (OFNP) safety standards

Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load Short term lbs./ Newtons	Max. Tensile Load Long term lbs./ Newtons	Weight lbs/ 1000'	Weight kg/ 1000m
36 Fiber (3 subunits)	P-036-DS-XY-FMUZZ	.54/13.7	10.8/27.4	5.4/13.7	800/3560	240/1068	128	191
48 Fiber (4 subunits)	P-048-DS-XY-FMUZZ	.59/15.1	11.9/30.2	5.9/15.1	800/3560	240/1068	138	205
60 Fiber (5 subunits)	P-060-DS-XY-FMUZZ	.68/17.2	13.6/34.4	6.8/17.2	1000/4450	300/1335	190	282
72 Fiber (6 subunits)	P-072-DS-XY-FMUZZ	.75/19.1	15.1/38.2	7.5/19.1	1000/4450	300/1335	237	353
96 Fiber (8 subunits)	P-096-DS-XY-FMUZZ	.91/23.1	18.2/46.1	9.1/23.1	1000/4450	300/1335	361	537
144 Fiber (12 subunits)	P-144-DS-XY-FMUZZ	19.5/24.8	19.5/49.5	9.7/24.8	1000/4450	300/1335	357	531
Single-mode/Multimode Composite (18-144 fiber)	P-XXX-DS-CM-FMUZZ/AAaaa/BBbbb Custom design - sizes/specs will vary depending on fiber count							

Variables in the Catalog Number:
XXX = Total Fiber Count

XY = Fiber Grade

8W (single-mode)
6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)
5L (LaserCore 300, 50μm, multimode)
5K (LaserCore 500, 50μm, multimode)

ZZ = Standard Jacket Color

OR (Orange- Multimode or composite containing multimode)
AQ (Aqua- LaserCore or composite containing LaserCore)

YL (Yellow- Single-mode or composite containing single-mode)
Minimum order required for special colors.

For Composites Only:

aaa is replaced with single-mode fiber count
AA is replaced with single-mode type

bbb is replaced by multimode fiber count
BB is replaced by multimode type

Fiber identification colors:

1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua
Colored Subunits - Subunits are individually color coded for easy identification

Plenum Distribution Cables

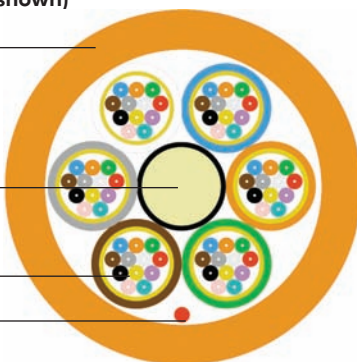
(72 and 12 fiber versions shown)

Plenum-rated jacket

Dielectric central member (with overcoat)

12 fiber subunit with 900μm tight-buffered 250μm fiber

Ripcord



Mechanical Properties

Description	Specification
Operating Temp.	-20 to 70°C
Installation Temp.	0 to 70°C
Storage Temp.	-40 to 70°C
Crush Resistance	Exceeds 57 lbf/in (10 N/mm)
Impact Resistance	Exceeds 4.34 lbf-ft (5.88 N-m)
Flexing	Exceeds 100 cycles
Twist/Bend	Exceeds

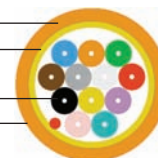
12 Fiber Subunit

Plenum-rated jacket

Aramid yarn

900μm tight-buffered 250μm fiber

Ripcord



Specifications subject to change without notice.

FiberGuard™ Interlocking Armored Riser Distribution Cables

- Applications:** Cables are protected with an interlocking armor to shield against damage. Used in Local Area Networks, Factory Automation, Critical Data Lines, Video, Robotics, Commercial Construction & Renovations, Heavy Industry, High Security Areas, and Indoor/Outdoor applications
- Features:** Aluminum interlocking armor with overall jacket.
NEC/CEC compliant
Outstanding mechanical protection for sensitive cables combined with excellent flexibility.

Physical Specifications

Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius inch/cm Loaded Unloaded	Max. Tensile Load lbs./Newtons	Crush Resistance	Weight lbs/1000' kg/1000m
2 Fiber	R-002-DZ-XY-FSUZZ	0.51/12.8	10.1/25.7 7.1/18.0	225/1001	85 N/mm	85 126
4 Fiber	R-004-DZ-XY-FSUZZ	0.51/12.8	10.1/25.7 7.1/18.0	300/1335	85 N/mm	89 133
6 Fiber	R-006-DZ-XY-FSUZZ	0.51/12.8	10.1/25.7 7.1/18.0	300/1335	85 N/mm	92 136
8 Fiber	R-008-DZ-XY-FSUZZ	0.51/12.8	10.1/25.7 7.1/18.0	300/1335	85 N/mm	94 139
12 Fiber	R-012-DZ-XY-FSUZZ	0.51/12.8	10.1/25.7 7.1/18.0	300/1335	85 N/mm	98 146
18 Fiber	R-018-DZ-XY-FSUZZ	0.61/15.4	12.1/30.7 8.5/21.5	300/1335	85 N/mm	125 187
24 Fiber	R-024-DZ-XY-FSUZZ	0.61/15.4	12.1/30.7 8.5/21.5	300/1335	85 N/mm	131 195
18 Fiber	R-018-DZ-XY-FMUZZ	0.81/20.4	16.1/40.9 11.3/28.6	300/1335	85 N/mm	232 345
24 Fiber	R-024-DZ-XY-FMUZZ	0.91/23.0	18.1/46.0 12.7/32.2	300/1335	85 N/mm	258 385
36 Fiber	R-036-DZ-XY-FMUZZ	0.91/23.0	18.1/46.0 12.7/32.2	300/1335	85 N/mm	264 393
48 Fiber	R-048-DZ-XY-FMUZZ	0.91/23.0	18.1/46.0 12.7/32.2	300/1335	85 N/mm	294 438
60 Fiber	R-060-DZ-XY-FMUZZ	1.06/26.8	21.1/53.6 14.8/37.5	300/1335	85 N/mm	345 513
72 Fiber	R-072-DZ-XY-FMUZZ	1.11/28.1	22.1/56.1 15.5/39.3	300/1335	85 N/mm	397 591
96 Fiber	R-096-DZ-XY-FMUZZ	1.26/31.9	25.1/63.8 17.6/44.6	300/1335	85 N/mm	528 786
144 Fiber	R-144-DZ-XY-FMUZZ	1.36/34.4	27.1/68.8 19.0/48.2	300/1335	85 N/mm	558 830



R - 072 - DZ - 8W - F - MU - OR
1 2 3 4 5 6 7

Jacket Rating

- R Riser
P Plenum
Z Low Smoke Zero Halogen

Fiber Count

2 - 144 Fibers

Armor

- DZ Distribution Aluminum Armor
LZ Stranded Loose Tube Aluminum Armor
OZ Indoor/Outdoor Tight Buffered Aluminum Armor

Fiber Grade

- 6F Enhanced FDDI 62.5/125μm
5K 50/125μm, LaserCore® 500
5L 50/125μm, LaserCore® 300
5M 50/125μm, LaserCore® 150
8W single-mode

Jacket Color

- BK Black, Indoor/Outdoor
OR Orange, 62.5μm Multimode & Composite
YL Yellow, Single-mode
AQ Aqua, 50μm LaserCore & LaserCore Composite

Miscellaneous Values

- SU Single Unit (DZ, OZ)
MU Multi Unit (DZ, OZ)
12 12 Fibers per Tube (LZ)

Jacket Print

- F Printed in Feet (Standard)
M Printed in Meters

Fiber identification colors follow the ANSI/TIA/EIA-598-B Color Code.
Visit www.commscope.com for FiberGuard product specification sheets.

FiberGuard™ Interlocking Armored Plenum Distribution Cables

- Applications:** Cables are protected with an interlocking armor to shield against damage. Used in Local Area Networks, Factory Automation, Critical Data Lines, Video, Robotics, Commercial Construction & Renovations, Heavy Industry, High Security Areas, and Indoor/Outdoor applications
- Features:** Aluminum interlocking armor with overall jacket.
NEC/CEC compliant
Outstanding mechanical protection for sensitive cables combined with excellent flexibility.

Physical Specifications

Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius inch/cm Loaded Unloaded	Max. Tensile Load lbs./Newtons	Crush Resistance	Weight lbs/1000' kg/1000m
2 Fiber	P-002-DZ-XY-FSUZZ	0.51/12.8	10.1/27.5 7.1/18.0	225/1001	68 N/mm	89 133
4 Fiber	P-004-DZ-XY-FSUZZ	0.51/12.8	10.1/27.5 7.1/18.0	225/1001	90 N/mm	93 138
6 Fiber	P-006-DZ-XY-FSUZZ	0.51/12.8	10.1/27.5 7.1/18.0	225/1001	90 N/mm	95 142
8 Fiber	P-008-DZ-XY-FSUZZ	0.51/12.8	10.1/27.5 7.1/18.0	225/1001	90 N/mm	97 145
12 Fiber	P-012-DZ-XY-FSUZZ	0.51/12.8	10.1/27.5 7.1/18.0	225/1001	90 N/mm	101 151
18 Fiber	P-018-DZ-XY-FSUZZ	0.69/17.4	13.7/34.8 9.6/24.4	300/1335	90 N/mm	200 298
24 Fiber	P-024-DZ-XY-FSUZZ	0.69/17.4	13.7/34.8 9.6/24.4	300/1335	90 N/mm	206 307
18 Fiber	P-018-DZ-XY-FMUZZ	0.84/21.2	16.7/42.4 11.7/29.7	300/1335	85 N/mm	268 399
24 Fiber	P-024-DZ-XY-FMUZZ	0.89/22.5	17.7/45.0 12.4/31.5	300/1335	85 N/mm	302 449
36 Fiber	P-036-DZ-XY-FMUZZ	0.86/21.7	17.1/43.4 12.0/30.4	300/1335	85 N/mm	282 420
48 Fiber	P-048-DZ-XY-FMUZZ	0.91/23.0	18.1/46.0 12.7/32.2	300/1335	85 N/mm	302 449
60 Fiber	P-060-DZ-XY-FMUZZ	1.01/25.5	20.1/51.1 14.1/35.7	300/1335	85 N/mm	352 524
72 Fiber	P-072-DZ-XY-FMUZZ	1.11/28.1	22.1/56.1 15.5/39.3	300/1335	85 N/mm	418 622
96 Fiber	P-096-DZ-XY-FMUZZ	1.26/31.9	25.1/63.8 17.6/44.6	300/1335	85 N/mm	569 847
144 Fiber	P-144-DZ-XY-FMUZZ	1.31/33.1	26.1/66.3 18.3/46.4	300/1335	90 N/mm	574 854



Jacket Rating

- R Riser
- P Plenum
- Z Low Smoke Zero Halogen

Fiber Count

- 2 - 144 Fibers

Armor

- DZ Distribution Aluminum Armor
- LZ Stranded Loose Tube Aluminum Armor
- OZ Indoor/Outdoor Tight Buffered Aluminum Armor

Fiber Grade

- 6F Enhanced FDDI 62.5/125μm
- 5K 50/125μm, LaserCore® 500
- 5L 50/125μm, LaserCore® 300
- 5M 50/125μm, LaserCore® 150
- 8W single-mode

Jacket Color

- BK Black, Indoor/Outdoor
- OR Orange, 62.5μm Multimode & Composite
- YL Yellow, Single-mode
- AQ Aqua, 50μm LaserCore & LaserCore Composite

Miscellaneous Values

- SU Single Unit (DZ, OZ)
- MU Multi Unit (DZ, OZ)
- 12 12 Fibers per Tube (LZ)

Jacket Print

- F Printed in Feet (Standard)
- M Printed in Meters

Fiber identification colors follow the ANSI/TIA/EIA-598-B Color Code.
Visit www.commscope.com for FiberGuard product specification sheets.

Premises Plenum Breakout Cables

Uniprise Fiber Optic Breakout Cables have a flame retardant outer jacket and contain individually jacketed subunits. Each subunit contains a 900 μ m tight-buffered fiber for easy connectorization. Breakout cables are well-suited for terminating directly to electronics when space for patch panels is not available.

Features:

- Available in single-mode and multimode fiber
- Available with 1.6mm, 2.5mm and 2.9mm subunits
- Plenum rating
- Individually protected 900 μ m tight buffered optical fibers

Applications:

- Used where space for patch panels is unavailable
- Allows for direct termination to equipment without using patch panels
- Routing inside equipment cabinets or other protected spaces

Plenum Breakout Cable (1.6 mm Subunits)

Fiber Count	Catalog Number	Outer Diameter inch/mm	Weight lbs/kft /kg/km	Minimum Bend Radius inch/cm		Max. Tensile Load lbs./Newtons		Max. Vertical Rise Feet/Meters
				Loaded	Unloaded	Short Term	Long Term	
4	P-004-BO-XY-F16ZZ†	0.21/5.4	18/26	4.3/10.9	2.1/5.4	120/534	36/160	1,640/500
6	P-006-BO-XY-F16ZZ	0.26/6.7	34/51	5.3/13.4	2.6/6.7	150/667	45/200	1,316/401
8	P-008-BO-XY-F16ZZ	0.31/7.9	48/72	6.2/15.9	3.1/7.9	300/1,335	90/400	1,640/500
12	P-012-BO-XY-F16ZZ	0.39/9.9	78/116	7.8/19.9	3.9/9.9	300/1,335	90/400	1,151/351
18	P-018-BO-XY-F16ZZ	0.39/9.9	70/104	7.8/19.8	3.9/9.9	600/2,670	180/801	1,640/500
24	P-024-BO-XY-F16ZZ	0.46/11.6	96/143	9.1/23.1	4.6/11.6	600/2,670	180/801	1,640/500

Plenum Breakout Cable (2.5 mm Subunits)

Fiber Count	Catalog Number	Outer Diameter inch/mm	Weight lbs/kft /kg/km	Minimum Bend Radius inch/cm		Max. Tensile Load lbs./Newtons		Max. Vertical Rise Feet/Meters
				Loaded	Unloaded	Short Term	Long Term	
4	P-004-BO-XY-F25ZZ†	0.32/8.1	47/69	6.4/16.2	3.2/8.1	300/1,335	90/400	1,640/500
6	P-006-BO-XY-F25ZZ	0.38/9.7	61/91	7.6/19.3	3.8/9.7	500/2,225	150/667	1,640/500
8	P-008-BO-XY-F25ZZ	0.45/11.5	78/116	9.0/23.0	4.5/11.5	600/2,670	180/801	1,640/500
12	P-012-BO-XY-F25ZZ	0.50/12.8	102/152	10.0/25.5	5.0/12.8	600/2,670	180/801	1,640/500
18	P-018-BO-XY-F25ZZ	0.57/14.4	137/203	11.3/28.8	5.7/14.4	600/2,670	180/801	1,241/378
24	P-024-BO-XY-F25ZZ	0.64/16.2	173/257	12.8/32.5	6.4/16.2	600/2,670	180/801	986/301

Plenum Breakout Cable (2.9 mm Subunits)

Fiber Count	Catalog Number	Outer Diameter inch/mm	Weight lbs/kft /kg/km	Minimum Bend Radius inch/cm		Max. Tensile Load lbs./Newtons		Max. Vertical Rise Feet/Meters
				Loaded	Unloaded	Short Term	Long Term	
4	P-004-BO-XY-F29ZZ†	0.35/9.0	49/73	7.1/17.9	3.5/9.0	300/1,335	90/400	1,640/500
6	P-006-BO-XY-F29ZZ	0.42/10.8	86/128	8.5/21.5	4.2/10.8	500/2,225	150/667	1,640/500
8	P-008-BO-XY-F29ZZ	0.50/12.8	125/187	10.0/25.5	5.0/12.8	600/2,670	180/801	1,435/438
12	P-012-BO-XY-F29ZZ	0.56/14.3	130/193	11.2/28.6	5.6/14.3	600/2,670	180/801	1,388/423

*Replace XY with Fiber Type and Grade (See Optical Performance Sheet)

*Replace ZZ with Jacket Color (See Cable Identification information below)

†Design does not contain a central member

Environmental & Mechanical

Specification	Test Method	
Operating Temperature	-4° to +158° F (-20° to +70° C)	FOTP - 3
Installation Temperature	32° to +158° F (0° to +70° C)	N/A
Storage Temperature	-40° to 158° F (-40° to +70° C)	N/A
Crush Resistance	Exceeds 57 lbf/in (10N/mm)	FOTP - 41
Impact Resistance	Exceeds 4.34 lbf-ft (5.88 N-m)	FOTP - 25
Flexing	Exceeds 100 Cycles	FOTP - 104
Twist Bend	Exceeds	FOTP - 85

Fiber and Cable Identification

Standard Jacket Color (according to fiber type)

50 μ m (LaseCore™) – **AQ** for Aqua
 62.5 μ m – **OR** for Orange
 Single-mode – **YL** for Yellow
 other colors available upon request





Fibers are identified with Standard color coding

1 – Blue
 Subunits are printed with Flame Rating, Subunit Number, and Fiber Type

Premises Riser Cordage

Several Constructions Available for a Variety of Uses

Meets critical NEC/CEC riser (OFNR) safety standards
 Simplex and zipcord cables available in a variety of sizes
 Designed for ease of handling and termination

Cable Type/Unit Size	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load Short term lbs./ Newtons	Max. Tensile Load Long term lbs./ Newtons	Weight lbs/ 1000'	Weight kg/ 1000m
 Simplex/1.6mm	R-001-SP-XY-F16ZZ	0.07/1.7	2.0/5.0	1.2/3.0	35/156	11/47	1.8	2.7
Simplex/2.0mm	R-001-SP-XY-F20ZZ	0.79/2.0	2.0/5.0	1.2/3.0	50/222	15/67	2.8	4.1
Simplex/2.5mm	R-001-SP-XY-F25ZZ	.098/2.50	2.0/5.0	1.2/3.0	60/267	18/80	4.2	6.3
Simplex/2.9mm	R-001-SP-XY-F29ZZ	0.11/2.9	2.3/5.8	1.2/3.0	60/267	18/80	5.8	8.7
 Duplex/2.5mm	R-002-DU-XY-F25ZZ	0.132/3.36 x 0.231/5.68	2.6/6.7	1.3/3.4	90/400	27/120	14.0	20.9
Duplex/2.9mm	R-002-DU-XY-F29ZZ	0.148/3.76 x 0.262/6.66	3.0/7.5	1.5/3.8	90/400	27/120	18.1	26.9
Zipcord/1.6mm	R-002-ZC-XY-F16ZZ	0.067/1.7 x 0.138/3.5	2.0/5.0	1.2/3.0	70/311	21/93	3.7	5.5
Zipcord/2.0mm	R-002-ZC-XY-F20ZZ	0.079/2.0 x 0.161/4.1	2.0/5.0	1.2/3.0	80/356	24/107	5.4	8.0
 Zipcord/2.5mm	R-002-ZC-XY-F25ZZ	0.098/2.5 x 0.201/5.1	2.0/5.0	1.2/3.0	90/400	27/120	8.5	12.6
Zipcord/2.9mm	R-002-ZC-XY-F29ZZ	0.11/2.9 x 0.23/5.9	2.3/5.8	1.2/3.0	90/400	27/120	11.7	17.4
 2 fiber interconnect	R-002-IC-XY-F29ZZ	0.11/2.9	2.3/5.8	1.2/3.0	70/311	21/93	4.7	7.0

Variables in the Catalog Number:

XY = Fiber Grade

8W (single-mode)
 6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)
 5L (LaserCore 300, 50μm, multimode)
 5K (LaserCore 500, 50μm, multimode)

ZZ = Standard Jacket Color

OR (Orange- Multimode or composite containing multimode)
 AQ (Aqua- LaserCore or composite containing LaserCore)

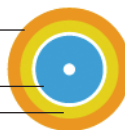
YL (Yellow- Single-mode or composite containing single-mode)
Minimum order required for special colors.

Fiber identification colors:

1/Blue, 2/Orange

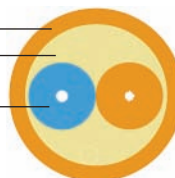
Riser Simplex

Riser-rated jacket
 900μm tight-buffered
 250μm fiber
 Aramid Yarn



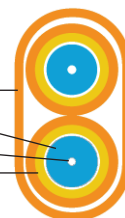
Riser 2-fiber Interconnect

Riser-rated jacket
 Aramid Yarn
 900μm tight-buffered
 250μm fibers



Riser Duplex

Riser-rated jacket
 900μm tight-buffered
 250μm fiber
 Aramid Yarn



Riser Zipcord

Riser-rated jacket
 Aramid yarn
 900μm tight-buffered
 250μm fiber



Mechanical Properties





Description	Specification
Operating Temp.	-20 to 70°C
Installation Temp.	-20 to 70°C
Storage Temp.	-40 to 70°C
Crush Resistance	Exceeds 57 lbf/in (10 N/mm)
Impact Resistance	Exceeds 0.54 lbf-ft (0.74 N-m)
Flexing	Exceeds 300 cycles
Twist/Bend	Exceeds

Specifications subject to change without notice.

Premises Plenum Cordage

Several Constructions Available for a Variety of Uses

Meets critical NEC/CEC plenum (OFNP) safety standards
 Simplex and zipcord cables available in a variety of sizes
 Designed for ease of handling and termination

Cable Type/Unit Size	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load Short term lbs./ Newtons	Max. Tensile Load Long term lbs./ Newtons	Weight lbs/ 1000'	Weight kg/ 1000m
 Simplex/1.6mm	P-001-SP-XY-F16ZZ	0.07/1.7	2.0/5.0	1.2/3.0	35/156	11/47	2.0	3.0
Simplex/2.0mm	P-001-SP-XY-F20ZZ	0.79/2.0	2.0/5.0	1.2/3.0	50/222	15/67	3.0	4.5
Simplex/2.5mm	P-001-SP-XY-F25ZZ	.098/2.50	2.0/5.0	1.2/3.0	60/267	18/80	4.9	7.3
Simplex/2.9mm	P-001-SP-XY-F29ZZ	0.11/2.9	2.3/5.8	1.2/3.0	60/267	18/80	6.8	10.1
 Duplex/1.6mm	P-002-DU-XY-F16ZZ	0.101/2.57 x 0.168/4.27	2.0/5.1	1.2/3.0	60/267	18/80	8.7	12.9
Duplex/2.5mm	P-002-DU-XY-F25ZZ	0.132/3.36 x 0.231/5.68	2.6/6.7	1.3/3.4	90/400	27/120	16.4	24.3
Duplex/2.9mm	P-002-DU-XY-F29ZZ	0.148/3.76 x 0.262/6.66	3.0/7.5	1.5/3.8	90/400	27/120	21.1	31.4
Zipcord/1.6mm	P-002-ZC-XY-F16ZZ	0.067/1.7 x 0.138/3.5	2.0/5.0	1.2/3.0	70/311	21/93	4.0	6.0
Zipcord/2.0mm	P-002-ZC-XY-F20ZZ	0.079/2.0 x 0.161/4.1	2.0/5.0	1.2/3.0	80/356	24/107	5.9	8.8
Zipcord/2.5mm	P-002-ZC-XY-F25ZZ	0.098/2.5 x 0.201/5.1	2.0/5.0	1.2/3.0	90/400	27/120	9.8	14.6
 Zipcord/2.9mm	P-002-ZC-XY-F29ZZ	0.11/2.9 x 0.23/5.9	2.3/5.8	1.2/3.0	90/400	27/120	13.6	20.2
 2 fiber interconnect	P-002-IC-XY-F29ZZ	0.11/2.9	2.3/5.8	1.2/3.0	70/311	21/93	5.8	8.6

Variables in the Catalog Number:

XY = Fiber Grade

8W (single-mode)

6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)

5L (LaserCore 300, 50μm, multimode)

5K (LaserCore 500, 50μm, multimode)

ZZ = Standard Jacket Color

OR (Orange- Multimode or composite containing multimode)

AQ (Aqua- LaserCore or composite containing LaserCore)

YL (Yellow- Single-mode or composite containing single-mode)

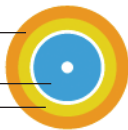
Minimum order required for special colors.

Fiber identification colors:

1/Blue, 2/Orange

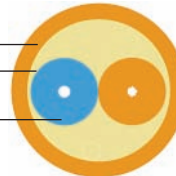
Plenum Simplex

Plenum-rated jacket
 900μm tight-buffered
 250μm fiber
 Aramid Yarn



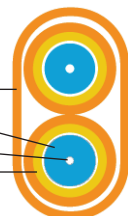
Plenum 2-fiber Interconnect

Plenum-rated jacket
 Aramid Yarn
 900μm tight-buffered
 250μm fibers



Plenum Duplex

Plenum-rated jacket
 900μm tight-buffered
 250μm fiber
 Aramid Yarn



Plenum Zipcord

Plenum-rated jacket

Aramid yarn
 900μm tight-buffered
 250μm fiber



Mechanical Properties

Description	Specification
Operating Temp.	-20 to 70°C
Installation Temp.	0 to 70°C
Storage Temp.	-40 to 70°C
Crush Resistance	Exceeds 57 lbf/in (10 N/mm)
Impact Resistance	Exceeds 0.54 lbf-ft (0.74 N-m)
Flexing	Exceeds 300 cycles
Twist/Bend	Exceeds

Specifications subject to change without notice.

Indoor/Outdoor Cables (OFNR & OFNP)

Designs are Rugged for Outdoor and Safe for Indoor

CommScope indoor/outdoor tight buffer cables are designed to meet the rigors of outside plant while allowing for direct connectorization of the individual fibers, yet meet the National Electric Code/Canadian Electric Code (NEC/CEC) requirement of Optical Fiber Non-conductive Riser (OFNR).

CommScope indoor/outdoor loose tube cables are a unique design - they are made to withstand the typical rigors of the outside plant environment (the buffer tubes are filled with a compound that blocks moisture flow while protecting the fiber), yet are made of materials that permit them to meet OFNR and OFNP requirements.

Indoor/outdoor cables allow a cable to be run from outside a building to the inside without changing cable types, thus avoiding the extra time and labor of an additional splice point. Their riser or plenum listing makes this possible.

Another technical achievement in CommScope's indoor/outdoor cables is the use of our ARID-CORE® dry water-blocking technology. Once exposed to moisture, ARID-CORE rapidly swells to form a gel that stops water penetration. The result is a craft-friendly cable that reduces termination time, effort and cost.

We offer several constructions, which include:

Triathlon® Riser and Low Smoke/Zero-Halogen (LSZH) Distribution cables of up to 72 tight buffered fibers. Cable meets OFNR-LS listing requirements per UL-1685.

Triathlon Riser and Low Smoke/Zero-Halogen (LSZH) Cordage in simplex, zipcord and two-fiber interconnect tight buffered designs. Cable meets OFNR-LS listing requirements per UL-1685.

Plenum Distribution cables up to 144 tight buffered fibers. Cable meets OFNP listing requirement per NFPA-262.

Riser Stranded Loose Tube cables of up to 288 fibers in a dielectric construction. Also available in Heavy Duty version (LH).

Plenum Stranded Loose Tube cables of 4-144 fibers in a dielectric all-dry construction. Cable meets OFNP listing requirements per NFPA-262.

Central Tube cables of up to 24 fibers in a robust all dielectric design.



Triathlon® Indoor/Outdoor Riser and LSZH Single Unit Distribution



Low Smoke-Zero Halogen Construction Permits Riser Use as Well

Black jackets are UV-stable for outdoor use yet meet critical NEC/CEC riser (OFNR and OFN-LS) safety standards

Riser rating eliminates splice points at the building entrance

ARID-CORE water blocking technology helps protect fibers from moisture

Low-smoke zero-halogen gives added protection to building occupants and equipment

Tight buffered construction reduces installation cost. Color-coded fibers help ease installation

Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load Short term lbs./ Newtons	Max. Tensile Load Long term lbs./ Newtons	Weight lbs/ 1000'	Weight kg/ 1000m
2 Fiber (no central member)	Z-002-DS-XY-FSUBK	.15/3.8	3.0/7.7	1.5/3.8	225/1001	68/300	7.8	11.6
4 Fiber (no central member)	Z-004-DS-XY-FSUBK	.20/5.1	4.0/10.1	2.0/5.1	300/1335	90/400	13.5	20.1
6 Fiber	Z-006-DS-XY-FSUBK	.22/5.5	4.4/11.1	2.2/5.5	300/1335	90/400	17.6	26.3
8 Fiber	Z-008-DS-XY-FSUBK	.25/6.3	5.0/12.6	2.5/6.3	300/1335	90/400	23.7	35.3
12 Fiber	Z-012-DS-XY-FSUBK	.28/7.2	5.6/14.2	2.8/7.1	400/1780	120/534	32.6	48.6
18 Fiber	Z-018-DS-XY-FSUBK	.31/7.9	6.2/15.7	3.1/7.9	300/1335	90/400	37.0	55.0
24 Fiber	Z-024-DS-XY-FSUBK	.34/8.7	6.8/17.4	3.4/8.7	300/1335	90/400	45.2	67.3
Single-mode/Multimode Composite (2 - 24 fiber)	Z-000-DS-CM-FSUX/AAaaa/BBbbb Custom design - sizes/specs will vary depending on fiber count							



Variables in the Catalog Number:

XXX = Total Fiber Count

XY = Fiber Grade

8W (single-mode)

6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)

5L (LaserCore 300, 50μm, multimode)

5K (LaserCore 500, 50μm, multimode)

For Composites Only: aaa is replaced with single-mode fiber count
AA is replaced with single-mode type

bbb is replaced by multimode fiber count
BB is replaced by multimode type

Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua
Fibers 13-24: repeat color sequence with tracer stripe

Triathlon Riser and LSZH Indoor/Outdoor-Single Unit Distribution Cable (24 fiber version shown)

Riser and LSZH jacket

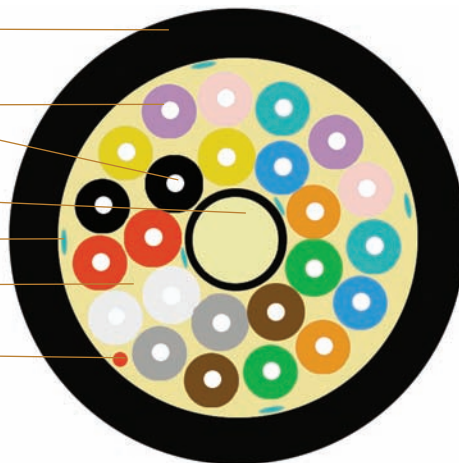
900μm tight-buffered
250μm fiber

Central Member

Water Blocking System

Aramid Yarn

Ripcord



Mechanical Properties

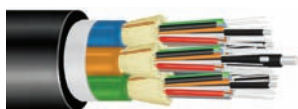
Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 70°C
Storage Temp.	-40 to 75°C
Crush Resistance	Exceeds 126 lbf/in (22 N/mm)
Impact Resistance	Exceeds 4.34 lbf-ft (5.88 N-m)
Flexing	Exceeds 100 cycles
Twist/Bend	Exceeds

Triathlon® Indoor/Outdoor Riser and LSZH Multi Unit Distribution

Low Smoke-Zero Halogen Construction Permits Riser Use as Well

Black jackets are UV-stable for outdoor use yet meet critical NEC/CEC riser (OFNR and OFN-LS) safety standards
 Riser rating eliminates splice points at the building entrance
 ARID-CORE water blocking technology helps protect fibers from moisture
 Low-smoke zero-halogen gives added protection to building occupants and equipment
 Tight buffered construction reduces installation cost. Numbered subunits and color-coded fibers help ease installation

Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load Short term lbs./ Newtons	Max. Tensile Load Long term lbs./ Newtons	Weight lbs/ 1000'	Weight kg/ 1000m
36 Fiber	Z-036-DS-XY-FMUBK	.70/17.8	14.0/35.6	7.0/17.8	800/3560	240/1068	162.4	241.6
48 Fiber	Z-048-DS-XY-FMUBK	.80/20.2	16.0/40.6	8.0/20.3	800/3560	240/1068	206.6	307.4
60 Fiber	Z-060-DS-XY-FMUBK	.87/22.0	17.4/44.2	8.7/22.1	1000/4450	300/1335	260.7	387.9
72 Fiber	Z-072-DS-XY-FMUBK	.95/24.1	19.0/48.2	9.5/24.1	1000/4450	300/1335	320.5	477.0



Single-mode/Multimode Composite (18-72 fiber) Z-000-DS-CM-FMUXX/AAaaa/BBbbb Custom design - sizes/specs will vary depending on fiber count

Variables in the Catalog Number:
 XXX = Total Fiber Count

XY = Fiber Grade

8W (single-mode)
 6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)
 5L (LaserCore 300, 50μm, multimode)
 5K (LaserCore 500, 50μm, multimode)

For Composites Only:

aaa is replaced with single-mode fiber count
 AA is replaced with single-mode type

bbb is replaced by multimode fiber count
 BB is replaced by multimode type

Fiber identification colors:

1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

Subunit ID

Subunits are numbered

Multi-Unit Triathlon Riser and LSZH Indoor/Outdoor-Distribution Cable (72 fiber version shown)

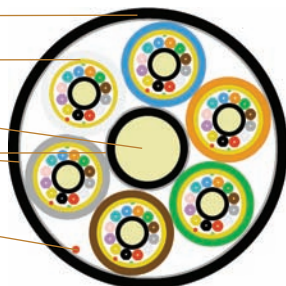
Riser and LSZH jacket

12-Fiber Subunit

Central Member

Water Blocking Tapes

Ripcord



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 70°C
Storage Temp.	-40 to 75°C
Crush Resistance	Exceeds 126 lbf/in (22 N/mm)
Impact Resistance	Exceeds 4.34 lbf-ft (5.88 N-m)
Flexing	Exceeds 100 cycles
Twist/Bend	Exceeds

12 Fiber Unit

LSZH Riser Rated Jacket

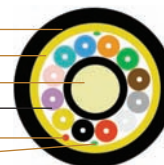
Aramid yarn

Central Member

900μm tight-buffered 250μm fiber

Ripcord

Water Blocking Thread



Specifications subject to change without notice.

Triathlon® Indoor/Outdoor Riser and LSZH Cordage



Low Smoke-Zero Halogen Construction Permits Riser Use as Well

Black jackets are UV-stable for outdoor use yet meet critical NEC/CEC riser (OFNR and OFN-LS) safety standards



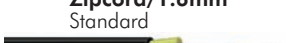
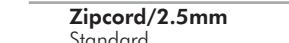
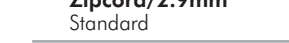

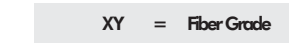
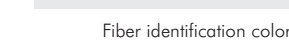
Riser rating eliminates splice points at the building entrance

ARID-CORE water blocking technology helps protect fibers from moisture

Low-smoke zero-halogen gives added protection to building occupants and equipment

Simplex and zipcord cables available in a variety of sizes

Designed for ease of handling and termination

Cable Type/Unit Size	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load Short term lbs./ Newtons	Max. Tensile Load Long term lbs./ Newtons	Weight lbs/ 1000'	Weight kg/ 1000m
 Simplex/1.6mm Standard	Z-001-SP-XY-F16BK	.067/1.7	2.0/5.0	1.2/3.0	35/156	11/47	1.9	2.9
 Simplex/2.5mm Standard	Z-001-SP-XY-F25BK	.098/2.5	2.0/5.0	1.2/3.0	60/267	18/80	4.5	6.7
 Simplex/2.9mm Standard	Z-001-SP-XY-F29BK	.11/2.9	2.3/5.8	1.2/3.0	60/267	18/80	6.2	9.2
 Duplex/2.5mm	Z-002-DU-XY-F25BK	0.132/3.36 x 0.231/5.86	2.6/6.7	1.3/3.4	90/400	27/120	14.9	22.2
 Zipcord/1.6mm Standard	Z-002-ZC-XY-F16BK	.067/1.7 x .138/3.5	2.0/5.0	1.2/3.0	70/311	21/93	3.8	5.6
 Zipcord/2.5mm Standard	Z-002-ZC-XY-F25BK	.098/2.5 x .201/5.1	2.0/5.0	1.2/3.0	90/400	27/120	9.0	13.4
 Zipcord/2.9mm Standard	Z-002-ZC-XY-F29BK	.11/2.9 x .23/5.9	2.3/5.8	1.21/3.0	90/400	27/120	12.4	18.5
 2 fiber interconnect	Z-002-IC-XY-F29BK	.114/2.9 x .23/5.9	2.3/5.8	1.2/3.0	70/311	21/93	5.0	7.4

Variables in the Catalog Number:

XY = Fiber Grade

8W (single-mode)
6F (62.5/125μm, multimode)

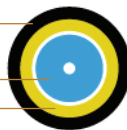
5M (LaserCore 150, 50μm, multimode)
5L (LaserCore 300, 50μm, multimode)
5K (LaserCore 500, 50μm, multimode)

Fiber identification colors:

1/Blue, 2/Orange

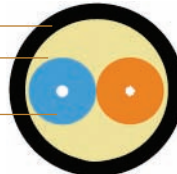
Triathlon Indoor/Outdoor Riser and LSZH Simplex

LSZH Riser Jacket
900μm LSZH tight-buffered
250μm fiber
Aramid Yarn



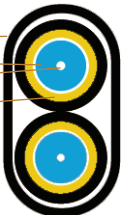
Triathlon Indoor/Outdoor Riser and LSZH 2-fiber Interconnect

LSZH Riser Jacket
Aramid yarn
900μm LSZH tight-buffered
250μm fibers



Triathlon Indoor/Outdoor Riser and LSZH Duplex

LSZH Riser Jacket
900μm tight-buffered
250μm fiber
Aramid Yarn



Triathlon Indoor/Outdoor LSZH Zipcord

LSZH Riser Jacket

Aramid yarn

900μm LSZH tight-buffered
250μm fiber



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 70°C
Storage Temp.	-40 to 75°C
Crush Resistance	Exceeds 57 lbf/in (10 N/mm)
Impact Resistance	Exceeds 0.54 lbf-ft (.74 N-m)
Flexing	Exceeds 300 cycles
Twist/Bend	Exceeds

Specifications subject to change without notice.

Mini Indoor/Outdoor LSZH Cable

Arid-Core® Construction

The cables are constructed with 2.0-mm buffer tubes, resulting in a reduced cable diameter and improved handling. The cable provides all the benefits of loose tube indoor cables, along with the durability for use in outdoor environments in cable ducts. The LSZH (Low Smoke Zero Halogen) indoor/outdoor loose tube cable can be used as a transition cable from outdoor to indoor applications, as splicing can be eliminated at the building entrance.

Features:

- Low Smoke/zero-halogen cable suitable for use in indoor/outdoor applications
- Stranded loose tube cable contains 2.0-mm gel-filled buffer tubes, each with up to twelve 250 micron optical fibers
- Buffer tubes are SZ stranded around the dielectric central member for strain-free operation and easier mid-span access
- Optical fibers and buffer tubes are color coded for easy identification
- Water blocked cable core contains super-absorbent polymer yarns and tapes to prevent water migration along the cable core
- UV-resistant jacket for use outdoors
- Fiber counts from 2-144
- Available with single-mode and multimode fibers
- Meets flame ratings per IEC 60332-1, IEC 60332-3, and IEC 61034
- Meets critical NEC (OFNR and OFN-LS) safety standards

Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load Short term lbs./ Newtons	Max. Tensile Load Long term lbs./ Newtons	Weight lbs/1000'	Weight kg/1000m
2 - 72 Fiber	Z-XXX-LN-XY-FZZBK/20G	0.43/11.0	8.6/22.0	4.3/11.0	607/2700	180/800	87	129
74 - 96 Fiber	Z-XXX-LN-XY-FZZBK/20G	0.47/12.0	9.4/24.0	4.7/12.0	607/2700	180/800	103	153
98 - 120 Fiber	Z-XXX-LN-XY-FZZBK/20G	0.52/13.3	10.4/26.6	5.2/13.3	607/2700	180/800	124	185
122 - 144 Fiber	Z-XXX-LN-XY-FZZBK/20G	0.58/14.7	11.5/29.4	5.8/14.7	607/2700	180/800	153	228
Single-mode/Multimode Composite (2-144 fiber)	Z-000-DS-CM-FMUXX/AAaaa/BBbbb Custom design - sizes/specs will vary depending on fiber count							

Variables in the Catalog Number:

XXX = Total Fiber Count ZZ = Fibers Per Tube

XY = Fiber Grade

8W (single-mode)
6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)
5L (LaserCore 300, 50μm, multimode)
5K (LaserCore 500, 50μm, multimode)

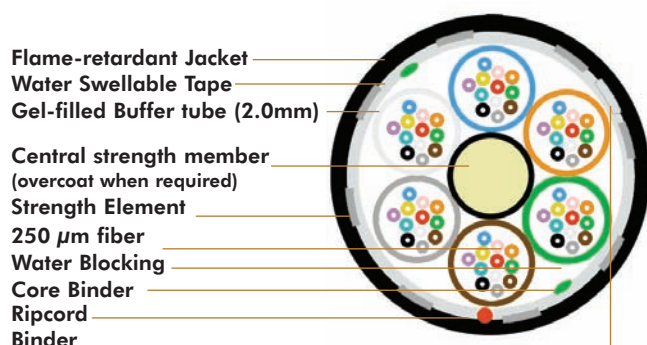
For Composites Only:

aaa is replaced with single-mode fiber count
AA is replaced with single-mode type

bbb is replaced by multimode fiber count
BB is replaced by multimode type

Mini Indoor/Outdoor LSZH Cable

(72 Fiber Version Shown)



Specifications subject to change without notice.

Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 70°C
Storage Temp.	-40 to 75°C
Crush Resistance	22 N/mm
Impact Resistance	2.94 N-m
Flexing	35 cycles
Twist/Bend	< 300 mm

Indoor/Outdoor Single Unit Plenum Distribution



Standard Versions

Black jackets are UV-stable for outdoor use yet meet critical NEC/CEC Plenum (OFNP) safety standards
 ARID-CORE water blocking technology helps protect fibers from moisture
 Designed for ease of handling and termination

Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load Short term lbs./ Newtons	Max. Tensile Load Long term lbs./Newtons	Weight lbs/ 1000'	kg/ 1000m
2 Fiber (no central member)	P-002-OD-XY-FSUBK	0.17/4.2	3.3/8.5	1.7/4.2	225/1001	68/300	10.7	15.9
4 Fiber (no central member)	P-004-OD-XY-FSUBK	0.19/4.8	3.7/9.5	1.9/4.8	300/1335	90/400	15.3	22.8
6 Fiber	P-006-OD-XY-FSUBK	0.21/5.4	4.3/10.8	2.1/5.4	300/1335	90/400	18.7	27.9
8 Fiber	P-008-OD-XY-FSUBK	0.23/5.8	4.6/11.6	2.3/5.8	300/1335	90/400	25.0	37.1
12 Fiber	P-012-OD-XY-FSUBK	0.27/6.9	5.4/13.8	2.7/6.9	300/1335	90/400	36.0	53.6
18 Fiber	P-018-OD-XY-FSUBK	0.28/7.1	5.6/14.1	2.8/7.1	300/1335	90/400	32.2	47.9
24 Fiber	P-024-OD-XY-FSUBK	0.31/7.9	6.3/15.9	3.1/7.9	300/1335	90/400	41.4	61.6
Single-mode/Multimode Composite (18-72 fiber)	P-XXX-OD-CM-FSUBK/AAaaa/BBbbb							



Variables in the Catalog Number:

XXX = Total Fiber Count

XY = Fiber Grade

8W (single-mode)

6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)

5L (LaserCore 300, 50μm, multimode)

5K (LaserCore 500, 50μm, multimode)

For Composites Only:

aaa is replaced with single-mode fiber count

AA is replaced with single-mode type

bbb is replaced by multimode fiber count

BB is replaced by multimode type

Fiber identification colors:

1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

Indoor/Outdoor Single Unit Plenum Distribution Cable (24 fiber version shown)

Outer Jacket

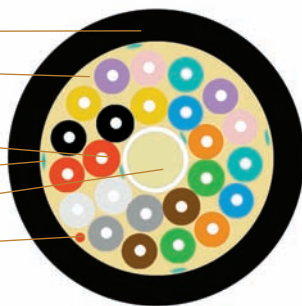
Aramid Yarn

900μm tight-buffered
250μm fiber

Water Blocking System

Central Member

Ripcord



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 70°C
Storage Temp.	-40 to 75°C
Crush Resistance	Exceeds 126 lbf/in (22 N/mm)
Impact Resistance	Exceeds 4.34 lbf-ft (5.88 N-m)
Flexing	Exceeds 25 cycles
Twist/Bend	Exceeds

Indoor/Outdoor Multi Unit Plenum Distribution

Standard Versions

Black jackets are UV-stable for outdoor use yet meet critical NEC/CEC Plenum (OFNP) safety standards
 ARID-CORE water blocking technology helps protect fibers from moisture
 Designed for ease of handling and termination

Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load Short term lbs./ Newtons	Max. Tensile Load Long term lbs./ Newtons	Weight lbs/ 1000'	Weight kg/ 1000m
36 Fiber	P-036-OD-XY-FMUBK	.67/17.1	13.5/34.3	6.7/17.1	800/3560	240/1068	174	259
48 Fiber	P-048-OD-XY-FMUBK	.74/18.9	14.9/37.8	7.4/18.9	800/3560	240/1068	222	330
60 Fiber	P-060-OD-XY-FMUBK	.85/21.5	16.9/43.0	8.5/21.5	1000/4450	300/1335	287	427
72 Fiber	P-072-OD-XY-FMUBK	.93/23.7	18.7/47.4	9.3/23.7	1000/4450	300/1335	357	532
96 Fiber	P-096-OD-XY-FMUBK	1.11/28.2	22.2/56.4	11.1/28.2	1000/4450	300/1335	542	806
144 Fiber	P-144-OD-XY-FMUBK	1.19/30.3	23.8/60.6	11.9/30.3	1000/4450	300/1335	558	831
Single-mode/Multimode Composite (18-72 fiber)	P-000-OD-CM-FMUXX/AAaaa/BBbbb Custom design - sizes/specs will vary depending on fiber count							

Variables in the Catalog Number:
 XXX = Total Fiber Count

XY = Fiber Grade

8W (single-mode)
 6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)
 5L (LaserCore 300, 50μm, multimode)
 5K (LaserCore 500, 50μm, multimode)

For Composites Only:

aaa is replaced with single-mode fiber count
 AA is replaced with single-mode type

bbb is replaced by multimode fiber count
 BB is replaced by multimode type

Fiber identification colors:

1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

Subunit ID

Subunits are numbered

Indoor/Outdoor Multi Unit Plenum Distribution Cable

(72 fiber version shown)

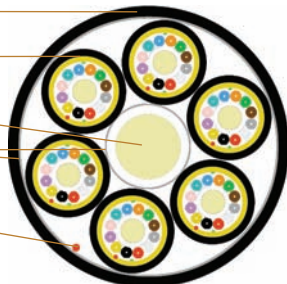
Outer jacket

12-Fiber Subunit

Central Member

Water Blocking Tapes

Ripcord



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 70°C
Storage Temp.	-40 to 75°C
Crush Resistance	Exceeds 126 lbf/in (22 N/mm)
Impact Resistance	Exceeds 4.34 lbf-ft (5.88 N-m)
Flexing	Exceeds 100 cycles
Twist/Bend	Exceeds

12 Fiber Unit

Plenum Rated Jacket

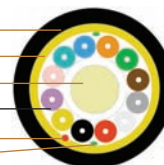
Aramid yarn

Central Member

900μm tight-buffered 250μm fiber

Ripcord

Water Blocking Thread



Specifications subject to change without notice.

Indoor/Outdoor Gel-free Stranded Loose Tube Riser

Gel-free Construction

All meet critical NEC/CEC riser (OFNR) safety standards, eliminating the need for splice point at building entrance. ARID-CORE water blocking technology helps protect fibers from moisture. Standard color-coding on fibers and buffer tubes helps ease installation. All buffer tubes are constructed to a nominal OD of 2.5mm.

Product Type/ Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Unloaded inch/cm	Installation Loading lbs/newtons	Crush Resistance N/cm	Weight lbs/ 1000'	kg/ 1000m
Single jacket 2 - 60 Fiber	R-XXX-LN-XY-FZZBK/25D	.45/11.5	9.0/23.0	4.5/11.5	607/2700	440	79	118
62 - 72 Fiber	R-XXX-LN-XY-FZZBK/25D	.47/11.9	9.3/23.8	4.7/11.9	607/2700	440	85	127
74 - 96 Fiber	R-XXX-LN-XY-FZZBK/25D	.53/13.5	10.6/27.0	5.3/13.5	607/2700	440	109	162
98 - 120 Fiber	R-XXX-LN-XY-FZZBK/25D	.59/15.1	11.9/30.2	5.9/15.1	607/2700	440	130	194
122 - 144 Fiber	R-XXX-LN-XY-FZZBK/25D	.68/17.2	13.5/34.4	6.8/17.2	607/2700	440	176	262
146 - 216 Fiber	R-XXX-LN-XY-FZZBK/25D	.70/17.8	14.0/35.6	7.0/17.8	607/2700	440	162	241
218 - 288 Fiber	R-XXX-LN-XY-FZZBK/25D	.79/20.2	15.9/40.4	7.9/20.2	607/2700	440	208	310
Single-mode/Multimode Composite (4-288 fiber)	R-XXX-LN-CM-FZZBK/AAaaa/BBbbb/25D	Custom design - sizes/specs will vary depending on fiber count						

Variables in the Catalog Number:

XXX = Total Fiber Count ZZ = Number of Fibers in Tube

XY = Fiber Grade

8W (single-mode)
6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)
5L (LaserCore 300, 50μm, multimode)
5K (LaserCore 500, 50μm, multimode)

For Composites Only:

aaa is replaced with single-mode fiber count
AA is replaced with single-mode type

bbb is replaced by multimode fiber count
BB is replaced by multimode type

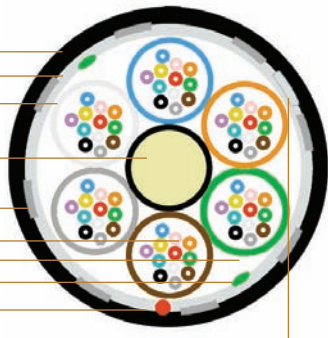
Buffer Tubes/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua
Buffer tubes 13-24 repeat color sequence with tracer stripe.

Indoor/Outdoor Gel-free Stranded Loose (72 Fiber Version Shown)

Flame-retardant Jacket
Water Swellable Tape
Gel-free Buffer tube (2.5mm)

Central strength member
(overcoat when required)
Strength Element

250 μm fiber
Water Blocking
Core Binder
Ripcord
Binder



Mechanical Properties


Description	Specification
Operating Temp.	-40 to +70°C
Installation Temp.	-30 to +60°C
Storage Temp.	-40 to +75°C
Crush Resistance	250 lbf/in (44 N/mm)
Impact Resistance	Exceeds
Flexing	25 cycles
Twist/Bend	Exceeds

Specifications subject to change without notice.

Heavy Duty Indoor/Outdoor Gel-free Stranded Loose Tube Riser

Gel-free Construction

All meet critical NEC/CEC riser (OFNR) safety standards, eliminating the need for splice point at building entrance. ARID-CORE water blocking technology helps protect fibers from moisture. Standard color-coding on fibers and buffer tubes helps ease installation. All buffer tubes are constructed to a nominal OD of 3mm.

Product Type/ Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Installation Loading lbs/newtons	Crush Resistance N/cm	Weight lbs/ 1000'	kg/ 1000m
Single jacket 2 - 60 Fiber	R-XXX-LH-XY-FZZBK/25D	.48/12.3	9.7/24.6	4.8/12.3	607/2700	440	97	144
62 - 72 Fiber	R-XXX-LH-XY-FZZBK/25D	.50/12.7	10.0/25.4	5.0/12.7	607/2700	440	103	154
								
74 - 96 Fiber	R-XXX-LH-XY-FZZBK/25D	.56/14.3	11.2/28.6	5.6/14.3	607/2700	440	129	192
98 - 120 Fiber	R-XXX-LH-XY-FZZBK/25D	.62/15.8	12.4/31.6	6.2/15.8	607/2700	440	152	227
122 - 144 Fiber	R-XXX-LH-XY-FZZBK/25D	.70/17.9	14.1/35.8	7.0/17.9	607/2700	440	201	300
146 - 216 Fiber	R-XXX-LH-XY-FZZBK/25D	.73/18.5	14.5/37.0	7.3/18.5	607/2700	440	188	281
218 - 288 Fiber	R-XXX-LH-XY-FZZBK/25D	.82/20.9	16.4/41.8	8.2/20.9	607/2700	440	238	355
Single-mode/Multimode Composite (4-288 fiber)	R-XXX-LH-CM-FZZBK/AAaaa/BBbbb/25D Custom design - sizes/specs will vary depending on fiber count							

Variables in the Catalog Number:

XXX = Total Fiber Count

ZZ = Number of Fiber in Tube

XY = Fiber Grade

8W (single-mode)

6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)

5L (LaserCore 300, 50μm, multimode)

5K (LaserCore 500, 50μm, multimode)

For Composites Only:

aaa is replaced with single-mode fiber count

AA is replaced with single-mode type

bbb is replaced by multimode fiber count

BB is replaced by multimode type

Buffer Tubes/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

Buffer tubes 13-24 repeat color sequence with tracer stripe.

Heavy Duty Indoor/Outdoor Gel-free Stranded Loose

(72 Fiber Version Shown)

PVDF Outer Jacket

Flame-retardant Double Jacket

Water Swellable Tape

Gel-free Buffer tube (2.5mm)

Central strength member

(overcoat when required)

Strength Element

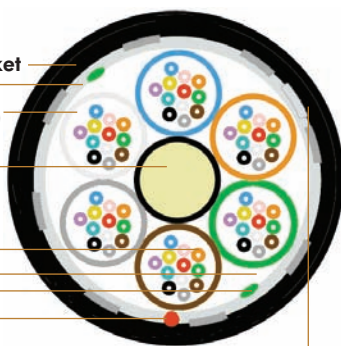
250 μm fiber

Arid-Core Water Blocking

Core Binder

Ripcord

Binder



Mechanical Properties

Description	Specification
Operating Temp.	-40 to +70°C
Installation Temp.	-30 to +60°C
Storage Temp.	-40 to +75°C
Crush Resistance	250 lbf/in (44 N/mm)
Impact Resistance	Exceeds
Flexing	25 cycles
Twist/Bend	Exceeds

Specifications subject to change without notice.

Indoor/Outdoor Stranded Loose Tube Plenum

Gel-free Construction

Features: Loose tube cable utilizing Arid-Core and dry tube technology; Temperature range is fully outside plant rated; Water blocking prevents moisture migration; Meets NEC requirements for OFNP rating

Benefits: Combines application spaces of building interconnect and plenum in a campus environment; Cables is suitable for direct burial, duct, or aerial installations; Dielectric design is lightweight, easy to access and does not require grounding; Suitable for harsh environment installations; Terminates using standard loose tube tools and procedures

Product Type/ Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Unloaded inch/cm	Installation Loading lbs/newtons	Crush Resistance N/cm	Weight lbs/ 1000'	kg/ 1000m
Single jacket 2 - 60 Fiber	P-XXX-LN-XY-FZZBK	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94
62 - 72 Fiber	P-XXX-LN-XY-FZZBK	.40/10.1	7.9/20.2	4.0/10.1	607/2700	440	69	103
74 - 96 Fiber	P-XXX-LN-XY-FZZBK	.46/11.7	9.2/23.4	4.6/11.7	607/2700	440	93	139
98 - 120 Fiber	P-XXX-LN-XY-FZZBK	.52/13.3	10.4/26.6	5.2/13.3	607/2700	440	122	182
122 - 144 Fiber	P-XXX-LN-XY-FZZBK	.60/15.3	12.0/30.6	6.0/15.3	607/2700	440	166	247
Single-mode/Multimode Composite (4 -144 fiber)	P-XXX-LN-CM-FZZBK/AAaaa/BBbbb	Custom design - sizes/specs will vary depending on fiber count						

Variables in the Catalog Number:

XXX = Total Fiber Count

ZZ = Number of Fibers in Tube

XY = Fiber Grade

8W (single-mode)
6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)
5L (LaserCore 300, 50μm, multimode)
5K (LaserCore 500, 50μm, multimode)

For Composites Only:

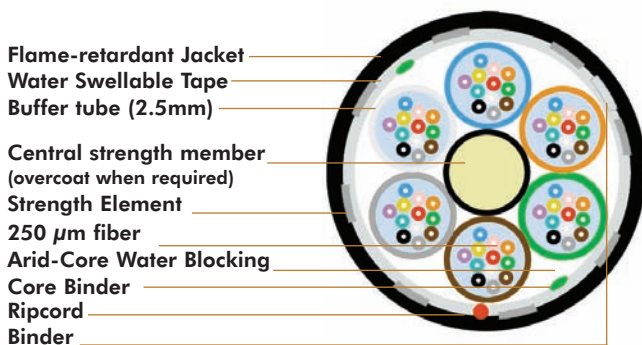
aaa is replaced with single-mode fiber count
AA is replaced with single-mode type

bbb is replaced by multimode fiber count
BB is replaced by multimode type

Buffer Tubes/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

Indoor/Outdoor Stranded Loose Cable

(72 Fiber Version Shown)



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 75°C
Crush Resistance	250 lbf/in (44 N/mm)
Impact Resistance	Exceeds 4.34 lbf-ft (5.88 N-m)
Flexing	Exceeds 25 cycles
Twist/Bend	Exceeds

Indoor/Outdoor Central Tube Riser

Multiple Constructions to Meet Your Specific Application

All meet critical NEC/CEC riser (OFNR) safety standards eliminating the need for splice point at building entrance
 ARID-CORE water blocking technology helps protect fibers from moisture
 Standard color-coding on fibers helps ease installation

Product Type/Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Radius Unloaded inch/cm	Installation Loading lbs/newtons	Crush Resistance N/cm	Weight lbs/ 1000'	kg/ 1000m
Central Loose Tube 2-24 Fiber, 4mm Tube	R-XXX-CN-XY-FZZBK	.40/10.1	7.9/20.2	4.0/10.1	607/2700	440	87	129
Single-mode/Multimode Composite (2-24 fiber)	R-XXX-CN-CM-FZZBK/AAaaa/BBbbb	Custom design - sizes/specs will vary depending on fiber count						

Variables in the Catalog Number:

XXX = Total Fiber Count ZZ = Number of Fibers in Tube

XY = Fiber Grade

8W (single-mode)
 6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)
 5L (LaserCore 300, 50μm, multimode)
 5K (LaserCore 500, 50μm, multimode)

For Composites Only:

aaa is replaced with single-mode fiber count
 AA is replaced with single-mode type

bbb is replaced by multimode fiber count
 BB is replaced by multimode type

Fiber & Binder Thread identification colors:

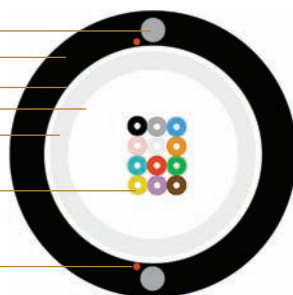
1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

Indoor/Outdoor Central Tube Cable (12 Fiber version shown)

Dielectric strength member
 Flame-retardant jacket
 E-Glass
 Water blocking gel
 Central buffer tube (4mm)

250 μm fiber

Ripcord



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 75°C
Crush Resistance	250 lbf/in (44 N/mm)
Impact Resistance	4.34 lbf-ft (5.88 N-m)
Flexing	25 cycles
Twist/Bend	Exceeds


Specifications subject to change without notice.

Mini Indoor/Outdoor Stranded Loose Tube

Low Smoke Zero Halogen High Tensile Strength Stranded Loose Tube Fiber Optic Cable

Features:

- High tensile strength and crush resistance ideal for harsh environments that require all-dielectric construction
- Capable of withstanding up to 1000 pounds (4450 N) of tensile force
- Improved e-glass design for enhanced rodent resistance
- Cables are constructed with 2.0mm buffer tubes, resulting in a reduced cable diameter and weight, and improved handling
- FRPE (LSZH) Jacket IEC 60332-1, IEC 60332-3, IEC 61034-2, IEC 60754-1, IEC 60754-2
- NEC Type: OFNR-LS (ETL) and C(ETL)
- Fiber Counts 2 – 144 (72 fiber count shown below)

Product Type/Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Installation Loading lbs/newtons	Weight lbs/ 1000'	Weight kg/ 1000m
 Mini Indoor/Outdoor 2-72 Fiber	Z-XXX-LN-XY-FZZBK/20G/HTS	0.51/13.1	10.3/26.2	5.1/13.1	1000/4448	115	171
74-96 Fiber	Z-XXX-LN-XY-FZZBK/20G/HTS	0.55/13.9	10.9/27.8	5.5/13.9	1000/4448	131	195
98-120 Fiber	Z-XXX-LN-XY-FZZBK/20G/HTS	0.58/14.9	11.7/29.8	5.8/14.9	1000/4448	151	225
122-144 Fiber	Z-XXX-LN-XY-FZZBK/20G/HTS	0.64/16.2	12.7/32.4	6.4/16.2	1000/4448	180	268

XXX Z-XXX-LN-XY-FZZBK/20G/HTS/AAaaa/BBbbb Custom design - sizes/specs will vary depending on fiber count

Variables in the Catalog Number:

XXX = Total Fiber Count

ZZ = Number of Fibers in Tube

XY = Fiber Grade

8W (single-mode)
6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)
5L (LaserCore 300, 50μm, multimode)
5K (LaserCore 500, 50μm, multimode)

For Composites Only:

aaa is replaced with single-mode fiber count
AA is replaced with single-mode type

bbb is replaced by multimode fiber count
BB is replaced by multimode type

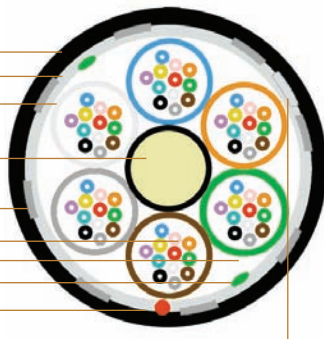
Buffer Tubes Binder Threads/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua
Buffer tubes 13-24 repeat color sequence with tracer stripe.

Mini Indoor/Outdoor Stranded Loose Tube Cable

(72 Fiber Version Shown)

Flame-retardant Jacket
Water Swellable Tape
Gel-free Buffer tube (2.5mm)

Central strength member
(overcoat when required)
Strength Element
250 μm fiber
Water Blocking
Core Binder
Ripcord
Binder



Specifications subject to change without notice.

Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 75°C
Crush Resistance	22 N/mm
Impact Resistance	2.94 N-mm
Flexing	35 cycles
Twist/Bend	10 cycles/<300 mm

Outside Plant Cables

Robust Dielectric and Armored Constructions

All CommScope Outside Plant (OSP) cables are designed and manufactured to provide outstanding mechanical and optical performance. This cable family uses a loose tube construction to provide multiple levels of protection for the fiber strands.

Our heavy-duty products are engineered to withstand the rigors of environmental extremes.

We offer several constructions, which include:

Stranded Loose Tube, using reverse oscillation stranding, in dielectric and armored constructions, up to 576 fibers. Available with water-blocking gel-filled buffer tubes or in an all dry buffer tube construction up to 288 fibers.

Central Tube, armored and dielectric up to 96 fibers arranged in easy-to-handle color-coded 12 fiber groups

Drop, small lightweight construction to allow ease of installation

Pavement Cable, cost effective installation which eliminates costly direction boring or trenching through a parking lot or other paved area

CommScope's All Dry Outside Plant Cable

- All dry construction removes filling gels and flooding compounds from the cable
- Reduced diameter buffer tubes utilized in the cable constructions
- Robust cable design

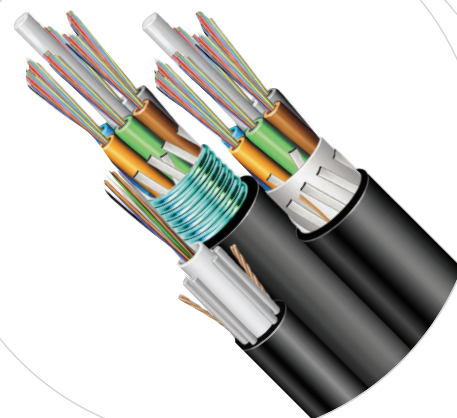
Designed to deliver the same proven quality and performance offered in all of our Uniprise Solutions. The armored and all-dielectric designs are suitable for direct buried, aerial and conduit applications. The construction features the use of dry water blocking elements and reduced diameter buffer tubes, resulting in a light weight, reduced diameter cable. The result is a fiber optic cable that is an ideal transmission medium for the outside plant environment. These designs are available with any of the high performance CommScope fiber types. The standard jacket material is Medium Density Polyethylene (MDPE), with an optional High Density Polyethylene (HDPE) jacket available. Additionally, the fiber and buffer tubes are color coded for easy identification.

CommScope's ARID-CORE® Moisture Barrier

- No greasy flooding compound around buffer tubes
- Speeds installation time
- Installer friendly

Moisture migration is virtually eliminated in Stranded Loose Tube cables by means of a unique three-level approach. In addition to tough outer jacketing and gel filling within the buffer tube, we employ ARID-CORE, a super-absorbent polymer (SAP) technology between the jacket and the buffer tubes. When moisture meets the ARID-CORE it is absorbed, thereby eliminating water migration and serving as a physical block ensuring long-term cable reliability in the Outside Plant.

Meets requirements of Telcordia, ICEA, RDUP, and IEC industry standards. CommScope is registered to the ISO 9001:2000 quality standard.



All Dry Outside Plant Stranded Loose Tube Non-Armored All Dielectric Gel-free Buffer Tube

Designs Aerial and Conduit Applications

Standard color-coding on fibers and buffer tubes for easy identification

All buffer tubes are constructed to a nominal OD of 2.5mm

MDPE jacket (also available in HDPE)

RDUP Listed



Product Type/ Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Unloaded inch/cm	Installation Loading lbs/newtons	Crush Resistance N/cm	Weight lbs/ 1000'	kg/ 1000m
Single jacket 2 - 60 Fiber	D-XXX-LN-XY-FZZNS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67
62 - 72 Fiber	D-XXX-LN-XY-FZZNS	.42/10.6	8.3/21.2	4.2/10.6	607/2700	440	49	73
74 - 96 Fiber	D-XXX-LN-XY-FZZNS	.48/12.2	9.6/24.4	4.8/12.2	607/2700	440	64	96
98 - 120 Fiber	D-XXX-LN-XY-FZZNS	.54/13.8	10.8/27.6	5.4/13.8	607/2700	440	83	124
122 - 144 Fiber	D-XXX-LN-XY-FZZNS	.62/15.8	12.4/31.6	6.2/15.8	607/2700	440	107	160
146 - 216 Fiber	D-XXX-LN-XY-FZZNS	.62/15.8	12.4/31.6	6.2/15.8	607/2700	440	90	134
218 - 288 Fiber	D-XXX-LN-XY-FZZNS	.71/18.2	14.3/36.4	7.1/18.2	607/2700	440	122	182
Single-mode/Multimode Composite (4-288 fiber)	D-XXX-LN-CM-FZZNS/AAaaa/BBbbb	Custom design - sizes/specs will vary depending on fiber count						

Variables in the Catalog Number:

XXX = Total Fiber Count ZZ = Number of Fibers Per Tube

XY = Fiber Grade

8W (single-mode)
6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)
5L (LaserCore 300, 50μm, multimode)
5K (LaserCore 500, 50μm, multimode)

For Composites Only:

aaa is replaced with single-mode fiber count
AA is replaced with single-mode type

bbb is replaced by multimode fiber count
BB is replaced by multimode type

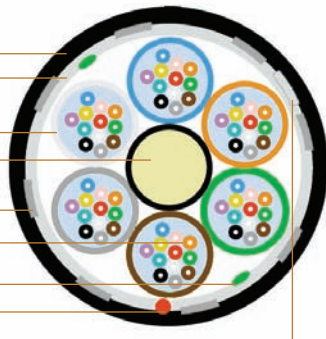
Buffer Tubes/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua
Buffer tubes 13-24 repeat color sequence with tracer stripe.

All Dry Stranded Loose Tube Non-Armored All Dielectric Cable (72 Fiber Version Shown)

Outer Jacket
Water Swellable Tape
Gel-Free

Buffer tube (2.5mm)
Central strength member
(overcoat when required)
Strength Element
250 μm fiber

Core Binder
Ripcord
Binder



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 75°C
Crush Resistance	250 lbf/in (44 N/mm)
Impact Resistance	Exceeds
Flexing	25 cycles
Twist/Bend	Exceeds

All Dry Outside Plant Stranded Loose Tube Armored Gel-free Buffer Tubes



Jacket/Armor Combinations for Direct Buried/Underground/Aerial Use

Corrugated steel tape armor is strong yet flexible
Standard color-coding on fibers and buffer tubes helps ease installation
All buffer tubes are constructed to a nominal OD of 2.5mm

MDPE jacket (also available in HDPE)
RDUP Listed

Product Type/ Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Loaded inch/cm	Radius Unloaded inch/cm	Installation Loading lbs/newtons	Crush Resistance N/cm	Weight lbs/ 1000'	kg/ 1000m
Single jacket/ single armor 2 - 60 Fiber	D-XXX-LA-XY-FZZNS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124
62 - 72 Fiber	D-XXX-LA-XY-FZZNS	.47/12.1	9.5/24.2	4.7/12.1	607/2700	440	88	131
74 - 96 Fiber	D-XXX-LA-XY-FZZNS	.54/13.7	10.8/27.4	5.4/13.7	607/2700	440	110	164
98 - 120 Fiber	D-XXX-LA-XY-FZZNS	.60/15.3	12.0/30.6	6.0/15.3	607/2700	440	133	199
122 - 144 Fiber	D-XXX-LA-XY-FZZNS	.68/17.3	13.6/34.6	6.8/17.3	607/2700	440	164	244
146 - 216 Fiber	D-XXX-LA-XY-FZZNS	.68/17.3	13.6/34.6	6.8/17.3	607/2700	440	146	218
218 - 288 Fiber	D-XXX-LA-XY-FZZNS	.77/19.7	15.5/39.4	7.7/19.7	607/2700	440	187	279
Single-mode/Multimode Composite (4-288 fiber)	D-XXX-LA-CM-FZZNS/AAaaa/BBbbb	Custom design - sizes/specs will vary depending on fiber count						

Variables in the Catalog Number:

XXX = Total Fiber Count ZZ = Number of Fibers Per Tube

XY = Fiber Grade

8W (single-mode)

6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)

5L (LaserCore 300, 50μm, multimode)

5K (LaserCore 500, 50μm, multimode)

For Composites Only:

aaa is replaced with single-mode fiber count

AA is replaced with single-mode type

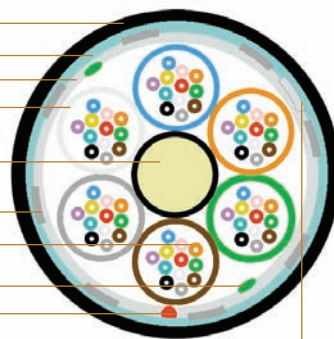
bbb is replaced by multimode fiber count

BB is replaced by multimode type

Buffer Tube/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua
Buffer tubes 13-24 repeat color sequence with tracer stripe.

All Dry Stranded Loose Tube Armored (72 Fiber Version Shown)

Outer Jacket
Armor
Water Swellable Tape
Gel-Free
Buffer tube (2.5mm)
Central strength member
(overcoat when required)
Strength Element
250 μm fiber
Core Binder
Ripcord
Binder



Specifications subject to change without notice.

Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 75°C
Crush Resistance	250 lbf/in (44 N/mm)
Impact Resistance	Exceeds
Flexing	25 cycles
Twist/Bend	Exceeds

Specifications subject to change without notice.

Outside Plant ARID-CORE® Stranded Loose Tube Non-Armored All Dielectric



Designs for Buried, Aerial and Conduit Applications

ARID-CORE water blocking technology helps protect fibers from moisture /reduces termination effort

Standard color-coding on fibers and buffer tubes for easy identification

All gel-filled buffer tubes are constructed to a nominal OD of 3mm for 2-288 fiber counts and 3.5mm for 290-576 fiber counts

MDPE jacket (also available in HDPE)

RDUP Listed

Product Type/ Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Installation Loading lbs/newtons	Crush Resistance N/cm	Weight lbs/ 1000'	Weight kg/ 1000m
Single jacket 2 - 60 Fiber	O-XXX-LN-XY-FZZNS	.44/11.3	8.9/22.6	4.4/11.3	607/2700	440	57	85
62 - 72 Fiber	O-XXX-LN-XY-FZZNS	.48/12.3	9.7/24.6	4.8/12.3	607/2700	440	70	104
74 - 96 Fiber	O-XXX-LN-XY-FZZNS	.56/14.3	11.2/28.6	5.6/14.3	607/2700	440	95	141
98 - 120 Fiber	O-XXX-LN-XY-FZZNS	.64/16.4	12.9/32.8	6.4/16.4	607/2700	440	122	182
122 - 144 Fiber	O-XXX-LN-XY-FZZNS	.73/18.5	14.5/37.0	7.3/18.5	607/2700	440	154	230
146 - 216 Fiber	O-XXX-LN-XY-FZZNS	.73/18.5	14.5/37.0	7.3/18.5	607/2700	440	139	207
218 - 288 Fiber	O-XXX-LN-XY-FZZNS	.84/21.5	16.9/43.0	8.4/21.5	607/2700	440	190	283
290 - 432 Fiber	O-XXX-LN-XY-FZZNS	.84/21.5	16.9/43.0	8.4/21.5	607/2700	440	192	286
434 -576 Fiber	O-XXX-LN-XY-FZZNS	.97/24.8	19.5/49.6	9.7/24.8	607/2700	440	260	387
Single-mode/Multimode Composite (4-432 fiber)	O-XXX-LN-CM-FZZNS/AAaaa/BBbbb Custom design - sizes/specs will vary depending on fiber count							

Variables in the Catalog Number:

XXX = Total Fiber Count ZZ = Number of Fibers in Tube

XY = Fiber Grade

8W (single-mode)
6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)
5L (LaserCore 300, 50μm, multimode)
5K (LaserCore 500, 50μm, multimode)

For Composites Only:

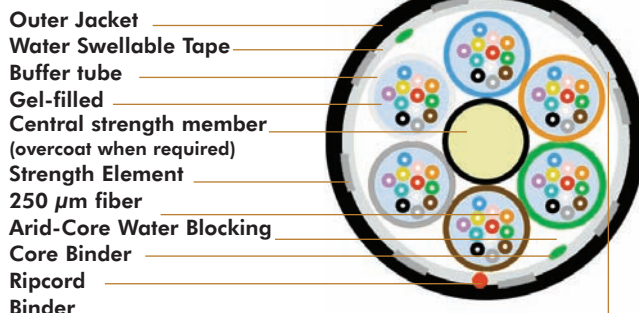
aaa is replaced with single-mode fiber count
AA is replaced with single-mode type

bbb is replaced by multimode fiber count
BB is replaced by multimode type

Buffer Tubes Binder Threads/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua
Buffer tubes 13-24 repeat color sequence with tracer stripe.

Cables containing more than 288 fibers, utilize 3.5 mm buffer tubes with 24 fibers per tube. The fibers are separated into 12 fiber bundles by use of identification threads.

ARID-CORE Stranded Loose Tube Non-Armored All Dielectric Cable (72 Fiber Version Shown)



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 75°C
Crush Resistance	250 lbf/in (44 N/mm)
Impact Resistance	Exceeds
Flexing	25 cycles
Twist/Bend	Exceeds


Specifications subject to change without notice.

Mini All-Dielectric Outside Plant Stranded Loose Tube

High Tensile Strength Stranded Loose Tube Fiber Optic Cable

Features:

- High tensile strength and crush resistance ideal for harsh environments that require an all-dielectric construction
- Capable of withstanding up to 1000 pounds (4450 N) of tensile force
- Improved e-glass design for enhanced rodent resistance
- Cables are constructed with 2.0mm buffer tubes, resulting in a reduced cable diameter and weight, and improved handling
- Fiber Counts 2 – 144 (72 fiber count shown below)

Product Type/Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Unloaded inch/cm	Installation Loading lbs/newtons	Weight lbs/ 1000'	kg/ 1000m
 Mini All-Dielectric 2-72 Fiber	O-XXX-LN-XY-FZZNS/20T/HTS	0.45/11.5	9.06/23.0	4.53/11.5	1000/4448	68	101
74-96 Fiber	O-XXX-LN-XY-FZZNS/20T/HTS	0.48/12.3	9.69/24.6	4.84/12.3	1000/4448	78	116
98-120 Fiber	O-XXX-LN-XY-FZZNS/20T/HTS	0.53/13.4	10.5/26.7	5.28/13.4	1000/4448	91	135
122-144 Fiber	O-XXX-LN-XY-FZZNS/20T/HTS	0.58/14.7	11.6/29.4	5.79/14.7	1000/4448	113	168
XXX	O-XXX-LN-CM-FZZNS/20T/HTS/AAaaa/BBbbb	Custom design - sizes/specs will vary depending on fiber count					

Variables in the Catalog Number:

XXX = Total Fiber Count

ZZ = Number of Fibers in Tube

XY = Fiber Grade

8W (single-mode)
6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)
5L (LaserCore 300, 50μm, multimode)
5K (LaserCore 500, 50μm, multimode)

For Composites Only:

aaa is replaced with single-mode fiber count
AA is replaced with single-mode type

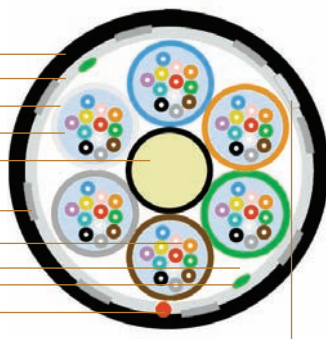
bbb is replaced by multimode fiber count
BB is replaced by multimode type

Buffer Tubes Binder Threads/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua
Buffer tubes 13-24 repeat color sequence with tracer stripe.

Mini All-Dielectric Outside Plant Stranded Loose Tube

(72 Fiber Version Shown)

Outer Jacket
Water Swellable Tape
Buffer tube
Gel-filled
Central strength member
(overcoat when required)
Strength Element
250 μm fiber
Arid-Core Water Blocking
Core Binder
Ripcord
Binder



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 75°C
Crush Resistance	250 lbf/in (44 N/mm)
Impact Resistance	2.21 lb/ft (3.00N-m)
Flexing	35 cycles
Twist/Bend	10 cycles

Specifications subject to change without notice.

Outside Plant ARID-CORE® Stranded Loose Tube Armored



Jacket/Armor Combinations for Direct Buried/Underground/Aerial Use

Corrugated steel tape armor is strong yet flexible

ARID-CORE water blocking technology helps protect fibers from moisture /reduces termination effort

Standard color-coding on fibers and buffer tubes helps ease installation

All gel-filled buffer tubes are constructed to a nominal OD of 3mm for 2-288 fiber counts and 3.5mm for 290-576 fiber counts

MDPE jacket (also available in HDPE)

RDUP Listed

Product Type/ Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Unloaded inch/cm	Installation Loading lbs/newtons	Crush Resistance N/cm	Weight lbs/ 1000'	kg/ 1000m
Single jacket/ single armor 2 - 60 Fiber	O-XXX-LA-XY-FZZNS	.50/12.8	10.0/25.6	5.0/12.8	607/2700	440	99	148
62 - 72 Fiber	O-XXX-LA-XY-FZZNS	.54/13.8	10.8/27.6	5.4/13.8	607/2700	440	115	172
74 - 96 Fiber	O-XXX-LA-XY-FZZNS	.62/15.9	12.5/31.8	6.2/15.9	607/2700	440	148	220
98 - 120 Fiber	O-XXX-LA-XY-FZZNS	.70/17.9	14.1/35.8	7.0/17.9	607/2700	440	182	271
122 - 144 Fiber	O-XXX-LA-XY-FZZNS	.78/20.0	15.7/40.0	7.8/20.0	607/2700	440	222	331
146 - 216 Fiber	O-XXX-LA-XY-FZZNS	.78/20.0	15.7/40.0	7.8/20.0	607/2700	440	207	309
218 - 288 Fiber	O-XXX-LA-XY-FZZNS	.90/23.0	18.1/46.0	9.0/23.0	607/2700	440	268	399
290 - 432 Fiber	O-XXX-LA-XY-FZZNS	.90/23.0	18.1/46.0	9.0/23.0	607/2700	440	268	399
434 - 576 Fiber	O-XXX-LA-XY-FZZNS	1.03/26.2	20.6/52.4	10.3/26.2	607/2700	440	345	515
Single-mode/Multimode Composite (4-288 fiber)	O-XXX-LA-CM-FZZNS/AAaaa/BBbbb	Custom design - sizes/specs will vary depending on fiber count						

Variables in the Catalog Number:

XXX = Total Fiber Count ZZ = Number of Fibers in Tube

XY = Fiber Grade

8W (single-mode)
6F (62.5/125µm, multimode)

5M (LaserCore 150, 50µm, multimode)
5L (LaserCore 300, 50µm, multimode)
5K (LaserCore 500, 50µm, multimode)

For Composites Only:

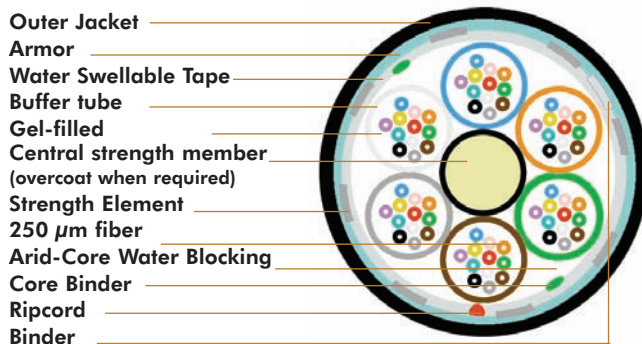
aaa is replaced with single-mode fiber count
AA is replaced with single-mode type

bbb is replaced by multimode fiber count
BB is replaced by multimode type

Buffer Tube Binder Threads/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua
Buffer tubes 13-24 repeat color sequence with tracer stripe.

Cables containing more than 288 fibers, utilize 3.5 mm buffer tubes with 24 fibers per tube. The fibers are separated into 12 fiber bundles by use of identification threads.

ARID-CORE Stranded Loose Tube Armored Cable (72 Fiber Version Shown)



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 75°C
Crush Resistance	250 lbf/in (44 N/mm)
Impact Resistance	Exceeds
Flexing	25 cycles
Twist/Bend	Exceeds

Specifications subject to change without notice.

Outside Plant Specialty Designs Double Jacket Single Armor Gel-Free Stranded Loose Tube

Jacket/Armor Combinations for Buried/Underground/Aerial Use

Strong, durable double and triple jacketed construction with corrugated steel tape armor
Standard color-coding on fibers and buffer tubes helps ease installation
All gel-free buffer tubes are constructed to a nominal OD of 2.5mm for 2-288 fiber counts
Double jacket/single armor version RDUP Listed

Product Type/ Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Loaded inch/cm	Radius Unloaded inch/cm	Installation Loading lbs/newtons	Crush Resistance N/cm	Weight lbs/ 1000'	kg/ 1000m
Double jacket/ single armor 2 - 60 Fiber	D-XXX-L2-XY-FZZNS	.59/15.1	11.9/30.2	5.9/15.1	607/2700	440	131	196
62 - 72 Fiber	D-XXX-L2-XY-FZZNS	.61/15.5	12.2/31.0	6.1/15.5	607/2700	440	139	208
74 - 96 Fiber	D-XXX-L2-XY-FZZNS	.67/17.0	13.4/34.2	6.7/17.1	607/2700	440	166	247
98 - 120 Fiber	D-XXX-L2-XY-FZZNS	.73/18.6	14.7/37.4	7.3/18.7	607/2700	440	195	291
122 - 144 Fiber	D-XXX-L2-XY-FZZNS	.81/20.7	16.2/41.4	8.1/20.7	607/2700	440	231	345
146 - 216 Fiber	D-XXX-L2-XY-FZZNS	.81/20.7	16.2/41.4	8.1/20.7	607/2700	440	215	320
218 - 288 Fiber	D-XXX-L2-XY-FZZNS	.91/23.1	18.1/46.2	9.1/23.1	607/2700	440	264	393
Single-mode/Multimode Composite	D-XXX-L2-CM-FZZNS/AAaaa/BBbbb (2-288 fibers) Custom design - sizes/specs will vary depending on fiber count							

Variables in the Catalog Number:

XXX = Total Fiber Count

ZZ = Number of Fibers Per Tube

XY = Fiber Grade

8W (single-mode)

6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)

5L (LaserCore 300, 50μm, multimode)

5K (LaserCore 500, 50μm, multimode)

For Composites Only:

aaa is replaced with single-mode fiber count

AA is replaced with single-mode type

bbb is replaced by multimode fiber count

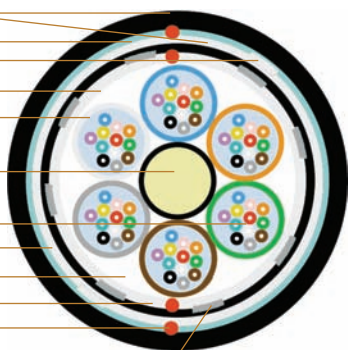
BB is replaced by multimode type

Buffer Tubes/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

Buffer tubes 13-24 repeat color sequence with tracer stripe.

Double Jacket/Single Armor Loose Tube Cable (72Fiber Version Shown)

Outer & inner jackets
Armor
Water swellable tape
Core binder
Gel-free Buffer tube
Central strength member
(overcoat when required)
250 μm fiber
Water swellable tape
Arid Core Water Blocking
Water swellable tape
Ripcord
Strength Elements



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 75°C
Crush Resistance	250 lbf/in (44 N/mm)
Impact Resistance	Exceeds
Flexing	25 cycles
Twist/Bend	Exceeds

Specifications subject to change without notice.

Outside Plant Specialty Designs Double Jacket Single Armor Stranded Loose Tube



Arid-Core Construction - Stranded Loose Tube

All meet critical NEC/CEC riser safety standards, eliminating the need for splice point at building entrance

ARID-CORE water blocking technology helps protect fibers from moisture

Standard color-coding on fibers and buffer tubes helps ease installation

All gel-filled buffer tubes are constructed to a nominal OD of 3mm

RDUP Listed



Product Type/ Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Unloaded inch/cm	Installation Loading lbs/newtons	Crush Resistance N/cm	Weight lbs/ 1000'	kg/ 1000m
Single jacket 2 - 60 Fiber	O-XXX-L2-XY-FZZNS	.64/16.2	12.7/32.4	6.4/16.2	607/2700	440	152	227
62 - 72 Fiber	O-XXX-L2-XY-FZZNS	.67/17.1	13.4/34.2	6.7/17.1	607/2700	440	171	255
74 - 96 Fiber	O-XXX-L2-XY-FZZNS	.75/19.2	15.1/38.4	7.5/19.2	607/2700	440	209	312
98 - 120 Fiber	O-XXX-L2-XY-FZZNS	.84/21.3	16.7/42.6	8.4/21.3	607/2700	440	252	376
122 - 144 Fiber	O-XXX-L2-XY-FZZNS	.92/23.4	18.4/46.8	9.2/23.4	607/2700	440	296	442
146 - 216 Fiber	O-XXX-L2-XY-FZZNS	.92/23.4	18.4/46.8	9.2/23.4	607/2700	440	282	420
218 - 288 Fiber	O-XXX-L2-XY-FZZNS	1.04/26.4	20.7/52.8	10.4/26.4	607/2700	440	350	522
290 - 432 Fiber	O-XXX-L2-XY-FZZNS	1.02/26.0	20.4/52.0	10.2/26.0	607/2700	440	343	512
434 - 576 Fiber	O-XXX-L2-XY-FZZNS	1.15/29.3	23.0/58.6	11.5/29.3	607/2700	440	433	645
Single-mode/Multimode Composite (4-576 fiber)	O-XXX-L2-XY-F12NS/AAaaa/BBbbb	Custom design - sizes/specs will vary depending on fiber count						

Variables in the Catalog Number:

XXX = Total Fiber Count

ZZ = Number of Fibers in Tube

XY = Fiber Grade

8W (single-mode)

6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)

5L (LaserCore 300, 50μm, multimode)

5K (LaserCore 500, 50μm, multimode)

For Composites Only:

aaa is replaced with single-mode fiber count

AA is replaced with single-mode type

bbb is replaced by multimode fiber count

BB is replaced by multimode type

Buffer Tubes/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua
Buffer tubes 13-24 repeat color sequence with tracer stripe.

Double Jacket/Single Armor Outdoor (72Fiber Version Shown)

Outer & inner jackets

Aramid

Water-block thread

Core binder

Buffer tube

Central strength member

(overcoat when required)

Gel-filled

250 μm fiber

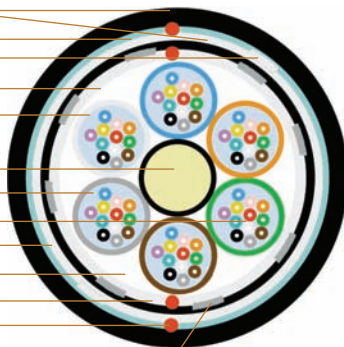
Water swellable tape

Arid Core Water Blocking

Water swellable tape

Ripcord

Strength Elements



Mechanical Properties

Description	Specification
Operating Temp.	-40 to +70°C
Installation Temp.	-30 to +60°C
Storage Temp.	-40 to +75°C
Crush Resistance	250 lbf/in (44 N/mm)
Impact Resistance	Exceeds
Flexing	25 cycles
Twist/Bend	Exceeds

Outside Plant Specialty Designs Triple Jacket Double Armor Stranded Loose Tube



Jacket/Armor Combinations for Buried/Underground/Aerial Use

Strong, durable double and triple jacketed construction with corrugated steel tape armor
Standard color-coding on fibers and buffer tubes helps ease installation
All gel-filled buffer tubes are constructed to a nominal OD of 3mm and 3.5mm for 290-576 fiber counts.

Product Type/ Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Loaded inch/cm	Radius Unloaded inch/cm	Installation Loading lbs/newtons	Crush Resistance N/cm	Weight lbs/ 1000'	kg/ 1000m
Triple jacket/ double armor 2 - 60 Fiber	O-XXX-L3-XY-FZZNS	.81/20.7	16.2/41.4	8.1/20.7	607/2700	440	272	404
62 - 72 Fiber	O-XXX-L3-XY-FZZNS	.85/21.7	17.0/43.4	8.5/21.7	607/2700	440	298	444
74 - 96 Fiber	O-XXX-L3-XY-FZZNS	.93/23.8	18.7/47.6	9.3/23.8	607/2700	440	345	514
98 - 120 Fiber	O-XXX-L3-XY-FZZNS	1.02/25.9	20.3/51.8	10.2/25.9	607/2700	440	398	593
122 - 144 Fiber	O-XXX-L3-XY-FZZNS	1.09/27.9	21.9/55.8	10.9/27.9	607/2700	440	450	671
146 - 216 Fiber	O-XXX-L3-XY-FZZNS	1.09/27.9	21.9/55.8	10.9/27.9	607/2700	440	447	667
218 - 288 Fiber	O-XXX-L3-XY-FZZNS	1.21/30.9	24.3/61.8	12.1/30.9	607/2700	440	529	789
290-432 Fiber	O-XXX-L3-XY-FZZNS	1.20/30.6	24.0/61.2	12.0/30.6	607/2700	440	526	785
434-576 Fiber	O-XXX-L3-XY-FZZNS	1.33/33.9	26.6/67.8	13.3/33.9	607/2700	440	636	949
Single-mode/Multimode Composite	O-XXX-L3-CM-FZZNS/AAaaa/BBbbb	(4-576 fibers)		Custom design- sizes/specs will vary depending on fiber count				

Variables in the Catalog Number:

XXX = Total Fiber Count ZZ = Number of Fibers in Tube

XY = Fiber Grade

8W (single-mode)

6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)

5L (LaserCore 300, 50μm, multimode)

5K (LaserCore 500, 50μm, multimode)

For Composites Only:

aaa is replaced with single-mode fiber count

AA is replaced with single-mode type

bbb is replaced by multimode fiber count

BB is replaced by multimode type

Buffer Tubes/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua
Buffer tubes 13-24 repeat color sequence with tracer stripe.

Cables containing more than 288 fibers, utilize 3.5 mm buffer tubes with 24 fibers per tube. The fibers are separated into 12 fiber bundles by use of identification threads.

Triple Jacket/Double Armor Loose Tube Cable (72 Fiber Version Shown)

Jackets

Dual armor

Core binder

Water swellable tape

Buffer tube (3mm)

Central strength member
(overcoat when required)

Water blocking gel

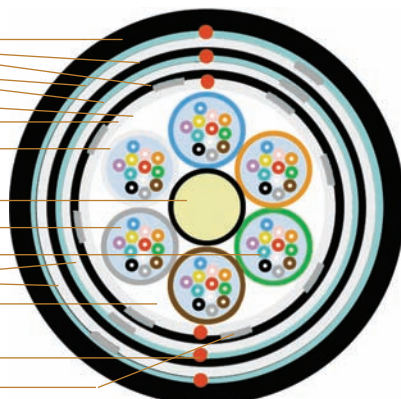
250 μm fiber

Water swellable tape

Arid Core Water Blocking

Ripcord

Strength Elements



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 75°C
Crush Resistance	250 lbf/in (44 N/mm)
Impact Resistance	Exceeds
Flexing	25 cycles
Twist/Bend	Exceeds

Outside Plant Specialty Designs Double Jacket All Dielectric Stranded Loose Tube



Arid-Core Construction - Stranded Loose Tube with 12-fiber Subunits

ARID-CORE water blocking technology helps protect fibers from moisture. Standard color-coding on fibers and buffer tubes helps ease installation. All buffer tubes are constructed to a nominal OD of 3mm.

Product Type/ Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Unloaded inch/cm	Installation Loading lbs/newtons	Crush Resistance N/cm	Weight lbs/ 1000'	kg/ 1000m
Single jacket 2 - 60 Fiber	O-XXX-LD-XY-FZZNS	.55/13.9	10.9/27.8	5.5/13.9	607/2700	440	92	137
62 - 72 Fiber	O-XXX-LD-XY-FZZNS	.58/14.9	11.7/29.8	5.8/14.9	607/2700	440	108	161
74 - 96 Fiber	O-XXX-LD-XY-FZZNS	.66/16.9	13.3/33.8	6.6/16.9	607/2700	440	139	207
98 - 120 Fiber	O-XXX-LD-XY-FZZNS	.75/19.0	14.9/38.0	7.5/19.0	607/2700	440	172	256
122 - 144 Fiber	O-XXX-LD-XY-FZZNS	.83/21.1	16.6/42.2	8.3/21.1	607/2700	440	210	313
146 - 216 Fiber	O-XXX-LD-XY-FZZNS	.83/21.1	16.6/42.2	8.3/21.1	607/2700	440	195	291
218 - 288 Fiber	O-XXX-LD-XY-FZZNS	.95/24.1	18.9/48.2	9.5/24.1	607/2700	440	253	378
Single-mode/Multimode Composite (4-288 fiber)	O-XXX-LD-XY-FZZNS/AAaaa/BBbbb	Custom design - sizes/specs will vary depending on fiber count						

Variables in the Catalog Number:

XXX = Total Fiber Count

ZZ = Number of Fibers in Tube

XY = Fiber Grade

8W (single-mode)

6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)

5L (LaserCore 300, 50μm, multimode)

5K (LaserCore 500, 50μm, multimode)

For Composites Only:

aaa is replaced with single-mode fiber count

AA is replaced with single-mode type

bbb is replaced by multimode fiber count

BB is replaced by multimode type

Buffer Tubes/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

Buffer tubes 13-24 repeat color sequence with tracer stripe.

Double Jacket All Dielectric Outdoor

(72 Fiber Version Shown)

Outer & inner jackets

Water-block thread

Core binder

Buffer tube

Central strength member

(overcoat when required)

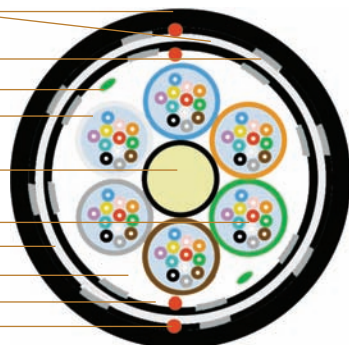
250 μm fiber

Water swellable tape

Arid Core Water Blocking

Water swellable tape

Ripcord



Mechanical Properties

Description	Specification
Operating Temp.	-40 to +70°C
Installation Temp.	-30 to +60°C
Storage Temp.	-40 to +75°C
Crush Resistance	250 lbf/in (44 N/mm)
Impact Resistance	Exceeds
Flexing	25 cycles
Twist/Bend	Exceeds

Outside Plant Central Tube Non-Armored All Dielectric

Dielectric Combinations for Buried/Underground/Aerial Use

Robust constructions offer excellent protection of fibers

Product Type/ Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Installation Loading lbs/newtons	Crush Resistance N/cm	Weight lbs/ 1000'	kg/ 1000m
Central Tube Dielectric 2-24 Fiber, 4mm Tube	O-XXX-CN-XY-FZZNS	.40/10.1	7.9/20.2	4.0/10.1	607/2700	440	63	94
Central Tube Dielectric 26-48 Fiber, 6mm Tube	O-XXX-CN-XY-FZZNS	.47/12.1	9.5/24.2	4.7/12.1	607/2700	440	86	128
Central Tube Dielectric 50-96 Fiber, 8mm Tube	O-XXX-CN-XY-FZZNS	.59/15.0	11.8/30.0	5.9/15.0	607/2700	440	152	226
Single-mode/Multimode Composite (4-96 Fiber)	O-XXX-CN-CM-FZZNS/AAaaa/BBbbb	Custom design - sizes/specs will vary depending on fiber count Tube size will vary dependent on fiber count/configuration.						

Variables in the Catalog Number:

XXX = Total Fiber Count ZZ = Number of Fibers in Tube

XY = Fiber Grade

8W (single-mode)
6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)
5L (LaserCore 300, 50μm, multimode)
5K (LaserCore 500, 50μm, multimode)

For Composites Only:

aaa is replaced with single-mode fiber count
AA is replaced with single-mode type

bbb is replaced by multimode fiber count
BB is replaced by multimode type

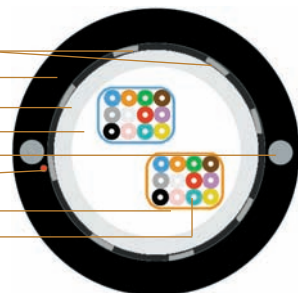
Fiber & Binder Thread identification colors:

1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

Central Tube Non-Armored All Dielectric Cable

24 Fiber Dielectric Version

Flexible Strength Elements
Outer jacket
Central buffer tube (4mm)
Water blocking gel
Rigid RSM (2)
Rip Cord
Color-coded binder thread
250 μm fiber



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 75°C
Crush Resistance	250 lbf/in (44 N/mm)
Impact Resistance	Exceeds
Flexing	25 cycles
Twist/Bend	Exceeds

Specifications subject to change without notice.

Outside Plant Central Tube Armored

Armored Combinations for Buried/Underground/Aerial Use

Robust constructions offer excellent protection of fibers
Corrugated steel tape armor is strong, yet flexible

Product Type/ Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Unloaded inch/cm	Installation Loading lbs/newtons	Crush Resistance N/cm	Weight lbs/ 1000'	kg/ 1000m
Central Tube Armored 2-24 Fiber, 4mm Tube	O-XXX-CA-XY-FZZNS	.43/11.0	8.6/22.0	4.3/11.0	607/2700	440	93	138
Central Tube Armored 26-48 Fiber, 6mm Tube	O-XXX-CA-XY-FZZNS	.51/13.0	10.2/26.0	5.1/13.0	607/2700	440	121	181
Central Tube Armored 50 - 96 Fiber 8mm Tube Size	O-XXX-CA-XY-FZZNS	.59/15.0	11.8/30.0	5.9/15.0	607/2700	440	152	226
Single-mode/Multimode Composite (4-96 Fiber)	O-XXX-CA-CM-FZZNS/AAaaa/BBbbb	Custom design - sizes/specs will vary depending on fiber count Tube size will vary dependent on fiber count/configuration.						

Variables in the Catalog Number:

XXX = Total Fiber Count ZZ = Number of Fibers in Tube

XY = Fiber Grade

8W (single-mode)
6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)
5L (LaserCore 300, 50μm, multimode)
5K (LaserCore 500, 50μm, multimode)

For Composites Only:

aaa is replaced with single-mode fiber count
AA is replaced with single-mode type

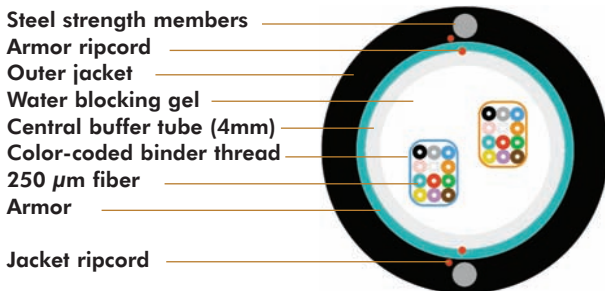
bbb is replaced by multimode fiber count
BB is replaced by multimode type

Fiber & Binder Thread
identification colors:

1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

Central Tube Armored Cable

(24 Fiber Version Shown)



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 75°C
Crush Resistance	250 lbf/in (44 N/mm)
Impact Resistance	Exceeds
Flexing	25 cycles
Twist/Bend	Exceeds

Outside Plant All-Dielectric Drop

1-12 Fiber Arid-Core Construction

Ideal for drop cable applications

Meets ICEA 717 Standard for drop cables

Designed with an industry standard 3.0 mm buffer tube

Product Type/ Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Unloaded inch/cm	Installation Loading lbs/newtons	Crush Resistance N/cm	Weight lbs/ 1000'	kg/ 1000m
1-12 Fiber, 3mm Tube	O-XXX-DN-XY-FZZNS/30T	.34/8.7	13.7/34.8	6.8/17.4	300/1335	440	46	69



Single-mode/Multimode Composite (4-12 fiber)	O-XXX-DN-CM-FZZNS/AAaaa/BBbbb/30T	Custom design - sizes/specs will vary depending on fiber count						
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Variables in the Catalog Number:

XXX = Total Fiber Count ZZ = Number of Fibers in Tube

XY = Fiber Grade

8W (single-mode)
6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)
5L (LaserCore 300, 50μm, multimode)
5K (LaserCore 500, 50μm, multimode)

For Composites Only:

aaa is replaced with single-mode fiber count
AA is replaced with single-mode type

bbb is replaced by multimode fiber count
BB is replaced by multimode type

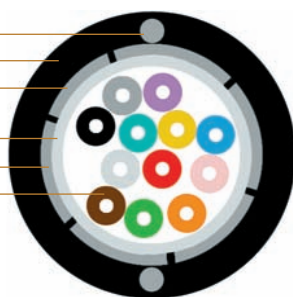
Fiber identification colors:

1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

Outdoor Drop Cable (12 Fiber version shown)

Rigid RSM
PE outer jacket
Strength elements

Buffer tube (3mm)
Gel
250 μm fiber



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 70°C
Crush Resistance	125 lbf/in (22 N/mm)
Impact Resistance	2.17 lbf-ft (2.94 N-m)
Flexing	25 cycles
Twist/Bend	Exceeds

Specifications subject to change without notice.

Outside Plant ARID-CORE® Drop Armored

Jacket/Armor Combinations for Buried/Underground/Aerial Use


Corrugated steel tape armor is strong yet flexible

ARID-CORE water blocking technology helps protect fibers from moisture /reduces termination effort

Standard color-coding on fibers helps ease installation

The buffer tube is constructed to a nominal OD of 3mm and is gel-filled.

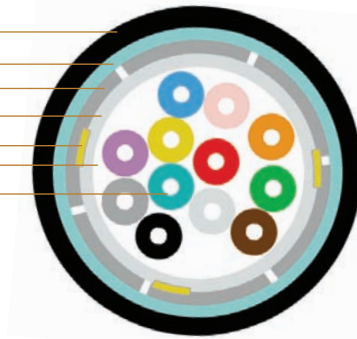
RDUP Listed

Product Type/ Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Installation Loading lbs/newtons	Crush Resistance N/cm	Weight lbs/ 1000'	Weight kg/ 1000m
1 - 12 Fiber	O-XXX-DA-XY-FZZNS/30T	.31/8.0	6.4/16.2	3.2/8.1	300/1335	220	48	72
								
Single-mode/Multimode Composite (4-12 fiber)	O-XXX-DA-CM-FZZNS/AAaaa/BBbbb/30T	Custom design - sizes/specs will vary depending on fiber count						
Variables in the Catalog Number:								
XXX = Total Fiber Count		ZZ = Number of Fibers in Tube						
XY = Fiber Grade		8W (single-mode) 6F (62.5/125μm, multimode)		5M (LaserCore 150, 50μm, multimode) 5L (LaserCore 300, 50μm, multimode) 5K (LaserCore 500, 50μm, multimode)				
For Composites Only:		aaa is replaced with single-mode fiber count AA is replaced with single-mode type			bbb is replaced by multimode fiber count BB is replaced by multimode type			
Fiber identification colors:				1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua				



ARID-CORE Drop Armored (12 Fiber Version Shown)

Outer Jacket
Armor
Fiberglass Strength Elements
Buffer tube (3mm)
Aramid Strength Elements
Gel
250 μm fiber



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 70°C
Crush Resistance	125 lbf/in (22 N/mm)
Impact Resistance	2.17 lbf-ft (2.94 N-m)
Flexing	25 cycles
Twist/Bend	Exceeds

Outside Plant All-Dielectric Flat Drop

1 - 12 Fiber Arid-Core® Construction Aerial Self-Support or Direct Burial

Small, lightweight cable construction designed for ease of handling and installation

Suitable for direct buried, underground conduit and aerial self-supporting FTTP applications

Longer spans and greater pull strength than other flat drops in the market

Compatible with industry-standard attachment hardware

Product Type/ Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Installation Loading lbs/newtons	Crush Resistance N/cm	Weight lbs/ 1000' kg/ 1000m
1 - 12 Fiber	O-XXX-DF-XY-FZZNS	.18/4.5 x .32/8.2	3.5/9.0	1.8/4.5	300/1335	220	27.7 / 41.3
Single-mode/Multimode Composite (1-12 fiber)	O-XXX-DF-CM-FZZNS/AAaaa/BBbbb	Custom design - sizes/specs will vary depending on fiber count					



Variables in the Catalog Number:

XXX = Total Fiber Count

XY = Fiber Grade

8W (single-mode)
6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)
5L (LaserCore 300, 50μm, multimode)
5K (LaserCore 500, 50μm, multimode)

For Composites Only:

aaa is replaced with single-mode fiber count
AA is replaced with single-mode type

bbb is replaced by multimode fiber count
BB is replaced by multimode type

Fiber identification colors:

1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red,

8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

Sag & Tension Examples

Fiber Count	Span (ft)	0.5% Sag Tension (lbs)	1.0% Sag Tension (lbs)	2.0% Sag Tension (lbs)	3.0% Sag Tension (lbs)
001-012	100	69lbs	35lbs	17lbs	12lbs

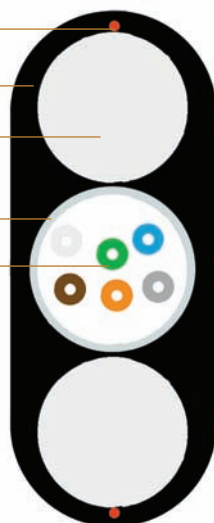
Values were calculated at 70°F (21°C)

Custom Sag & Tension Tables are available providing the recommended sag or tension. Please contact technical support.

Flat Drop

(6 Fiber Version Shown)

Rip Cord
Outer Jacket
GRP Rod
2.0mm Gel-Filled
Buffer Tube
250 micron fibers



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 70°C
Crush Resistance	125 lbf/in (22 N/mm)
Impact Resistance	2.17 lbf-ft (2.94 N-m)
Flexing	25 cycles
Twist/Bend	Exceeds

Specifications subject to change without notice.

Outside Plant Self-Support Figure 8 Mini-Drop Cable

1-6 Fiber Loose Tube Construction

CCS (Solid Copper Covered Steel) toneable messenger

Also available in BSS (Bronze Stranded Steel) messenger

RDUP Listed

Product Type/ Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Unloaded inch/cm	Crush Resistance N/cm	Weight lbs/ 1000'	kg/ 1000m
Figure 8 Mini-Drop 1 - 6 Fiber	M-XXX-MN-XY-F06NS-CCS	0.15/3.8 (diameter over messenger 0.16/4.0)	3.0/7.6	1.5/3.8	220	26.0	39.0



Variables in the Catalog Number:

XXX = Total Fiber Count

XY = Fiber Grade

8W (single-mode)
6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)
5L (LaserCore 300, 50μm, multimode)
5K (LaserCore 500, 50μm, multimode)

For Composites Only:

aaa is replaced with single-mode fiber count
AA is replaced with single-mode type

bbb is replaced by multimode fiber count
BB is replaced by multimode type

Fiber identification colors:

1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White

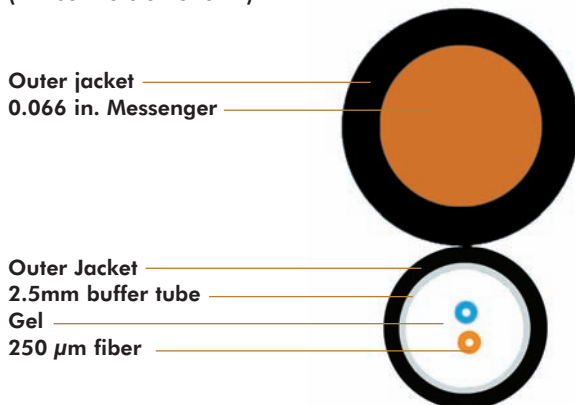
Sag & Tension Examples

Fiber Count	Span (ft)	0.5% Sag Tension (lbs)	1.0% Sag Tension (lbs)	2.0% Sag Tension (lbs)	3.0% Sag Tension (lbs)
001-006	100	66lbs	33lbs	16lbs	11lbs

Values were calculated at 70°F (21°C)

Custom Sag & Tension Tables are available providing the recommended sag or tension. Please contact technical support.

Figure 8 Mini-Drop 4mm (2 Fiber Version Shown)



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 70°C
Crush Resistance	125 lbf/in (22 N/mm)
Impact Resistance	2.17 lbf-ft (2.94 N-m)
Flexing	25 cycles
Twist/Bend	Exceeds

Specifications subject to change without notice.

Outside Plant Self-Supporting Figure 8 Drop

1-12 Fiber ARID-CORE Construction

ARID-CORE water blocking technology protects fibers from moisture/reduces termination effort

RDUP Listed

Product Type/ Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Crush Resistance N/cm	Weight lbs/ 1000'	kg/ 1000m
Figure 8 Drop 1 - 12 Fiber	M-XXX-DN-XY-FZZNS	0.26/6.60 (diameter over messenger 0.13/3.43)	5.2/13.2	2.6/6.6	220	46.8	69.8
Single-mode/Multimode Composite (2-12 fiber)	M-XXX-DN-CM-FZZNS/AAaaa/BBbbb	Custom design - sizes/specs will vary depending on fiber count					

Variables in the Catalog Number:

XXX = Total Fiber Count

ZZ = Number of Fibers in Tube

XY = Fiber Grade

8W (single-mode)

6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)

5L (LaserCore 300, 50μm, multimode)

5K (LaserCore 500, 50μm, multimode)

For Composites Only:

aaa is replaced with single-mode fiber count

AA is replaced with single-mode type

bbb is replaced by multimode fiber count

BB is replaced by multimode type

Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

Sag & Tension Examples

Fiber Count	Span (ft)	0.5% Sag Tension (lbs)	1.0% Sag Tension (lbs)	2.0% Sag Tension (lbs)	3.0% Sag Tension (lbs)
001-012	100	118	59	30	20

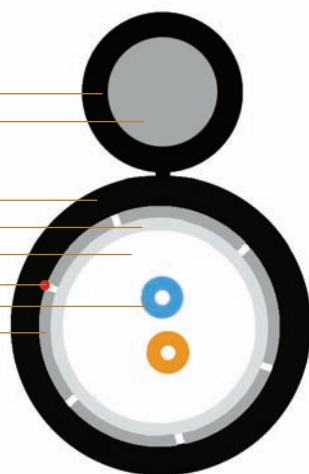
Values were calculated at 70°F (21°C)

Custom Sag & Tension Tables are available providing the recommended sag or tension. Please contact technical support.

Figure 8 Drop Cable (2 Fiber Version Shown)

Outer jacket
0.083 in. Messenger

Outer Jacket
4.0mm buffer tube
Gel
Ripcord
250 μm fiber
Strength elements



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 70°C
Crush Resistance	125 lbf/in (22 N/mm)
Impact Resistance	2.17 lbf-ft (2.94 N-m)
Flexing	25 cycles
Twist/Bend	Exceeds

Outside Plant Self-Supporting Figure 8 Stranded Loose Tube Non Armored

Dielectric Designs for Aerial Use

ARID-CORE water blocking technology protects fibers from moisture/reduces termination effort
All buffer tubes are constructed to a nominal OD of 3mm.

Product Type/ Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Unloaded inch/cm	Crush Resistance N/cm	Weight lbs/ 1000'	kg/ 1000m
Figure 8 Non-Armored							
2 - 60 Fiber	M-XXX-LN-XY-FZZNS	.89/22.8	18.2/46.4	9.1/23.2	440	213	318
62 - 72 Fiber	M-XXX-LN-XY-FZZNS	.93/23.8	19.8/50.4	9.9/25.2	440	227	338
74 - 144 Fiber	M-XXX-LN-XY-FZZNS	1.18/30.0	29.5/75.2	14.8/37.6	440	312	466
146 - 216 Fiber	M-XXX-LN-XY-FZZNS	1.18/30.0	29.5/75.2	14.8/37.6	440	297	443
218 - 288 Fiber	M-XXX-LN-XY-FZZNS	1.30/33.0	34.2/87.2	17.1/43.6	440	349	520
Single-mode/Multimode Composite (4-288 fiber)	M-XXX-LN-CM-FZZNS/AAaaa/BBbbb	Custom design - sizes/specs will vary depending on fiber count					



Variables in the Catalog Number:

XXX = Total Fiber Count

ZZ = Number of Fibers in Tube

XY = Fiber Grade

8W (single-mode)

6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)

5L (LaserCore 300, 50μm, multimode)

5K (LaserCore 500, 50μm, multimode)

For Composites Only:

aaa is replaced with single-mode fiber count

AA is replaced with single-mode type

bbb is replaced by multimode fiber count

BB is replaced by multimode type

Buffer Tubes/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua
Buffer tubes 13-24 repeat color sequence with tracer stripe.

Loading Capabilities: Meets the loading conditions of heavy, medium or light storm loading areas as defined in Rule 251 of the National Electric Safety Code (NESC); for span details, call tech support (866.484.6277).

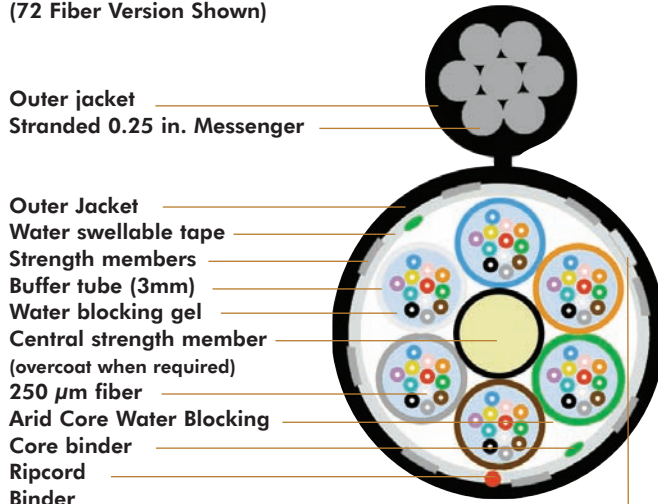
Sag & Tension Examples

Fiber Count	Span (ft)	0.5% Sag Tension (lbs)	1.0% Sag Tension (lbs)	2.0% Sag Tension (lbs)	3.0% Sag Tension (lbs)
002-060	150	802	401	200	134
062-072	150	851	425	213	142
074-144	150	1174	587	293	196
146-216	150	1117	559	279	186
218-288	150	1310	655	328	218

Values were calculated at 70°F (21°C)

Custom Sag & Tension Tables are available providing the recommended sag or tension. Please contact technical support.

Figure 8 Non Armored Cable (72 Fiber Version Shown)



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 75°C
Crush Resistance	250 lbf/in (44 N/mm)
Impact Resistance	Exceeds
Flexing	25 cycles
Twist/Bend	Exceeds

Outside Plant Self-Supporting Figure 8 Stranded Loose Tube Armored



Armored Designs for Aerial Use

ARID-CORE water blocking technology protects fibers from moisture/reduces termination effort
All buffer tubes are constructed to a nominal OD of 3mm.

Product Type/ Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Unloaded inch/cm	Crush Resistance N/cm	Weight lbs/ 1000' kg/ 1000m
Figure 8 Non-Armored						
2 - 60 Fiber	M-XXX-LN-XY-FZZNS	.89/22.8	18.2/46.4	9.1/23.2	440	213 318
62 - 72 Fiber	M-XXX-LN-XY-FZZNS	.93/23.8	19.8/50.4	9.9/25.2	440	227 338
74 - 144 Fiber	M-XXX-LN-XY-FZZNS	1.18/30.0	29.5/75.2	14.8/37.6	440	312 466
146 - 216 Fiber	M-XXX-LN-XY-FZZNS	1.18/30.0	29.5/75.2	14.8/37.6	440	297 443
218 - 288 Fiber	M-XXX-LN-XY-FZZNS	1.30/33.0	34.2/87.2	17.1/43.6	440	349 520
Single-mode/Multimode Composite (4-288 fiber)	M-XXX-LN-CM-FZZNS/AAaaa/BBbbb Custom design - sizes/specs will vary depending on fiber count					



Variables in the Catalog Number:

XXX = Total Fiber Count

ZZ = Number of Fibers in Tube

XY = Fiber Grade

8W (single-mode)

6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)

5L (LaserCore 300, 50μm, multimode)

5K (LaserCore 500, 50μm, multimode)

For Composites Only:

aaa is replaced with single-mode fiber count

AA is replaced with single-mode type

bbb is replaced by multimode fiber count

BB is replaced by multimode type

Buffer Tubes/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua
Buffer tubes 13-24 repeat color sequence with tracer stripe.

Loading Capabilities: Meets the loading conditions of heavy, medium or light storm loading areas as defined in Rule 251 of the National Electric Safety Code (NESC); for span details, call tech support (866.484.6277).

Sag & Tension Examples

Fiber Count	Span (ft)	0.5% Sag Tension (lbs)	1.0% Sag Tension (lbs)	2.0% Sag Tension (lbs)	3.0% Sag Tension (lbs)
002-060	150	802	401	200	134
062-072	150	851	425	213	142
074-144	150	1174	587	293	196
146-216	150	1117	559	279	186
218-288	150	1310	655	328	218

Values were calculated at 70°F (21°C)

Custom Sag & Tension Tables are available providing the recommended sag or tension. Please contact technical support.

Figure 8 Armored Cable

(72 fiber version shown)

Outer jacket

Stranded 0.25 in. Messenger

Outer jacket

Armor

Core binder

Water swellable tape

Buffer tube (3mm)

Water blocking gel

Central strength member

(overcoat when required)

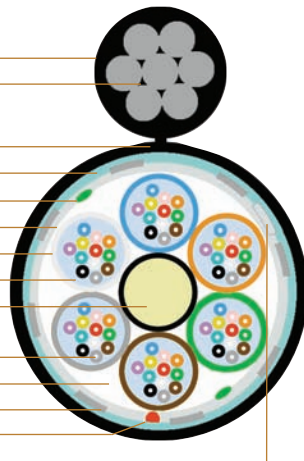
250 μm fiber

Arid Core Water Blocking

Strength members

Ripcord

Binder



Specifications subject to change without notice.

Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 75°C
Crush Resistance	250 lbf/in (44 N/mm)
Impact Resistance	Exceeds
Flexing	25 cycles
Twist/Bend	Exceeds

Outside Plant All-Dielectric Self Supporting ADSS Cable



Arid-Core Construction - Stranded Loose Tube with 12-fiber Subunits

ARID-CORE water blocking technology helps protect fibers from moisture. Standard color-coding on fibers and buffer tubes helps ease installation. All buffer tubes are constructed to a nominal OD of 3mm.

Product Type/ Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Weight lbs/ 1000' kg/ 1000m
Single jacket 2 - 60 Fiber	S-XXX-LN-XY-FZZNS/NFB	.46/11.8	9.3/23.6	4.6/11.8	66 99
Single-mode/Multimode Composite (4-60 fiber)	S-XXX-LN-CM-FZZNS/AAaaaa/BBbbb/NFB	Custom design - sizes/specs will vary depending on fiber count			

Variables in the Catalog Number:

XXX = Total Fiber Count

ZZ = Number of Fibers Per Tube

XY = Fiber Grade

8W (single-mode)

6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)

5L (LaserCore 300, 50μm, multimode)

5K (LaserCore 500, 50μm, multimode)

For Composites Only:

aaa is replaced with single-mode fiber count

AA is replaced with single-mode type

bbb is replaced by multimode fiber count

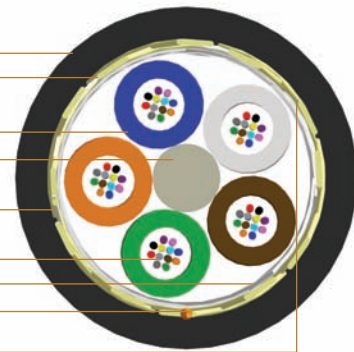
BB is replaced by multimode type

Buffer Tubes/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

Fiber Count	NESC Heavy		NESC Medium		NESC Light	
	Max Span ft (m)	Total Sag at NESC Loading (%)	Max Span ft (m)	Total Sag at NESC Loading (%)	Max Span ft (m)	Total Sag at NESC Loading (%)
2 - 60 Fiber	374 (114)	5.04	594 (181)	4.62	817 (249)	4.18

All-Dielectric Self Supporting ADSS (72 Fiber Version Shown)

Outer Jacket
Water Swellable Tape
Gel-Free
Buffer tube (3mm)
Central strength member
(overcoat when required)
Counter Helically
applied Aramid Yarn
250 μm fiber
Core Binder
Ripcord
Binder



Mechanical Properties

Description	Specification
Operating Temp.	-40 to +70°C
Installation Temp.	-30 to +60°C
Storage Temp.	-40 to +75°C
Crush Resistance	250 lbf/in (44 N/mm)
Impact Resistance	Exceeds
Flexing	25 cycles
Twist/Bend	Exceeds
High Frequency (Aeolian) Vibration	100 Million Cycles
Low Frequency (Galloping) Vibration	100,000 Cycles
Electrical Space Potential (standard)	up to 12 kV
Electrical Space Potential (special)	up to 25 kV

Hybrid Cables

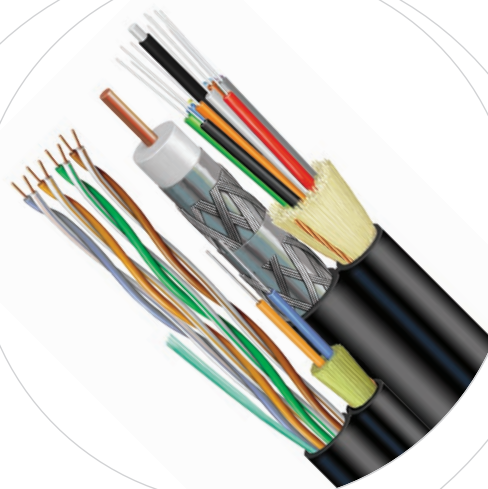
Featuring Combinations of Coax, Fiber and/or Unshielded Twisted Pair

Structured cabling is a continually growing facet of telecommunications. In an effort to provide connectivity for all necessary services, hybrid cable designs are becoming the choice to easily install numerous cables to each outlet for cable television, HDTV, computer networking, multi-line telephone service, security, energy management systems, and more - all via a single cable run.

Using our unique position as the one cable supplier manufacturing coax, twisted pair and fiber optic cables under one roof, CommScope employs advanced engineering technologies by manufacturing and testing each component of a hybrid cable simultaneously.

CommScope offers true hybrid/composite cables featuring subunits contained within a single jacket. Our constructions offer the additional protection of an outside jacket compared to designs offered by many vendors that are merely a bundle of subunits wrapped together with a special tape or binder thread - frequently called "speed pull". CommScope hybrid cables are constructed from subunits carefully selected and performance-verified individually and as the sum of individual parts.

Special designs can be produced at your request, quickly and economically using our flexible manufacturing system. In fact, CommScope will help define the product that best meets your specific needs. Contact any CommScope sales representative at 800.544.1948 to discuss your application.



Features	Benefits
May contain U/UTP, coax and fiber optic subunits individually jacketed then cabled in a single bundle under one smooth surface.	<ul style="list-style-type: none"> • Great for multiple cable television drops, phone/data lines, security systems and multimedia requirements • Saves time and installation dollars • Easier materials management • Components can be easily separated into individually jacketed points for easy termination • Capable of voice transmission, cable television location and site powering • Avails future proofing for the demands of advanced data video and telecommunications • Less prone to snags and violations of cable bend radius limits • Enhances the cable's ruggedness enabling each subunit to better withstand the rigors of cable installation and remote field applications
Coax Cable Subunits	<ul style="list-style-type: none"> • Robust coax cable components are available in a variety of braid options to provide protection against moisture, liquids and gases while boasting excellent mechanical strength and transmission qualities
Single-mode and/or multimode fiber optic cable subunits	<ul style="list-style-type: none"> • Excellent for transmission of voice, data or video signals with extraordinary reliability and clarity. No other medium today can challenge fiber optics in bandwidth, distance and noise immunity • Available in armored constructions for additional rodent and environmental protection • Tight buffered, loose tube or central tube designs offered in single-mode or multimode optical fiber types and a range of grades
Copper twisted pair subunits	<ul style="list-style-type: none"> • Specify Category 5e which provides the performance necessary for voice and data networking

Hybrid Cables

Single Jacket Outdoor

2-276 Fiber ARID-CORE Construction, 1-5 Copper Twisted Pairs (22 AWG)
Stranded Loose Tube

Fiber Count/ No. of Pairs	Catalog Number	Outer Diameter inch/mm	Min. Loaded inch/cm	Bend Radius Unloaded inch/cm	Installation Loading lbs/newtons	Crush Resistance N/cm	Weight lbs/ 1000' kg/ 1000m
2-48 Fiber 001-002	O-XXX-LN-HY-FZZNS/ XYXXX/NX22UTP	.44/11.3	8.9/22.6	4.4/11.3	Short Term 607/2700 Long Term 180/800	440	58 87
38-60 Fiber 001-002	O-XXX-LN-HY-FZZNS/ XYXXX/NX22UTP	.48/12.3	9.7/24.6	4.8/12.3	Short Term 607/2700 Long Term 180/800	440	71 106
02-84 Fiber 001-004	O-XXX-LN-HY-FZZNS/ XYXXX/NX22UTP	.56/14.3	11.2/28.6	5.6/14.3	Short Term 607/2700 Long Term 180/800	440	96 143
02-108 Fiber 001-005	O-XXX-LN-HY-FZZNS/ XYXXX/NX22UTP	.64/16.4	12.9/32.8	6.4/16.4	Short Term 607/2700 Long Term 180/800	440	123 184
62-132 Fiber 001-005	O-XXX-LN-HY-FZZNS/ XYXXX/NX22UTP	.73/18.5	14.5/37.0	7.3/18.5	Short Term 607/2700 Long Term 180/800	440	155 231
86-204 Fiber 001-005	O-XXX-LN-HY-FZZNS/ XYXXX/NX22UTP	.73/18.5	14.5/37.0	7.3/18.5	Short Term 607/2700 Long Term 180/800	440	140 209
158-276 Fiber 001-005	O-XXX-LN-HY-FZZNS/ XYXXX/NX22UTP	.84/21.5	16.9/43.0	8.4/21.5	Short Term 607/2700 Long Term 180/800	440	194 290

Variables in the Catalog Number:

XXX = Total Fiber Count

ZZ = Number of Fibers per Tube

XY = Fiber Grade

8W (single-mode)

6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)

5L (LaserCore 300, 50μm, multimode)

5K (LaserCore 500, 50μm, multimode)

N = Number of Copper Pairs

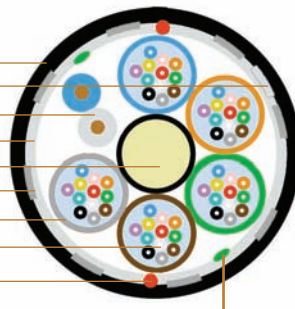
Fiber & Buffer Tube

identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

Copper Twisted Pairs are identified with standard color coding: 1 White/Blue, 2 White/Orange, 3 White/Green, 4 White/Brown, 5 White/Slate

ARID-CORE Construction Hybrid (12 Fiber, 5 Pair Shown)

PE Outer Jacket
Binder
22 AWG U/UTP (1)
Water Swellable Tape
Dielectric Strength Member
Strength Element
3.0mm Gel Filled Buffer Tube
250 micron Fiber
Ripcord
Core Binder



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 75°C
Crush Resistance	250 lbf/in (44 N/mm)
Impact Resistance	Exceeds
Flexing	25 cycles
Twist/Bend	Exceeds

Hybrid Cables

Single Jacket Single Armor Outdoor

2-276 Fiber ARID-CORE Construction, 1-5 Copper Twisted Pairs (22 AWG)
Stranded Loose Tube

Fiber Count/ No. of Pairs	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Installation Loading lbs/newtons	Crush Resistance N/cm	Weight lbs/ 1000'	Weight kg/ 1000m
2-48 Fiber 001-002	O-XXX-LA-HY-FZZNS/ YXXXX/NX22UTP	.50/12.8	10.0/25.6	5.0/12.8	Short Term 607/2700 Long Term 180/800	440	101	150
38-60 Fiber 001-002	O-XXX-LA-HY-FZZNS/ YXXXX/NX22UTP	.54/13.8	10.8/27.6	5.4/13.8	Short Term 607/2700 Long Term 180/800	440	116	173
02-84 Fiber 001-004	O-XXX-LA-HY-FZZNS/ YXXXX/NX22UTP	.62/15.9	12.5/31.8	6.2/15.9	Short Term 607/2700 Long Term 180/800	440	149	222
02-108 Fiber 001-005	O-XXX-LA-HY-FZZNS/ YXXXX/NX22UTP	.57/14.4	11.3/28.8	5.7/14.4	Short Term 607/2700 Long Term 180/800	440	97	145
62-132 Fiber 001-005	O-XXX-LA-HY-FZZNS/ YXXXX/NX22UTP	.78/20.0	15.7/40.0	7.8/20.0	Short Term 607/2700 Long Term 180/800	440	223	333
86-204 Fiber 001-005	O-XXX-LA-HY-FZZNS/ YXXXX/NX22UTP	.78/20.0	15.7/40.0	7.8/20.0	Short Term 607/2700 Long Term 180/800	440	208	310
158-276 Fiber 001-005	O-XXX-LA-HY-FZZNS/ YXXXX/NX22UTP	.90/23.0	18.1/46.0	9.0/23.0	Short Term 607/2700 Long Term 180/800	440	272	406

Variables in the Catalog Number:

XXX = Total Fiber Count

ZZ = Number of Fibers per Tube

XY = Fiber Grade

8W (single-mode)

6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)

5L (LaserCore 300, 50μm, multimode)

5K (LaserCore 500, 50μm, multimode)

N = Number of Copper Pairs

Fiber & Buffer Tube
identification colors:

1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

ARID-CORE Construction Hybrid

(12 Fiber, 5 Pair Shown)

PE Outer Jacket

Steel Tape Armoring

Binder

22 AWG U/UTP (1)

Water Swellable Tape

Dielectric Strength Member

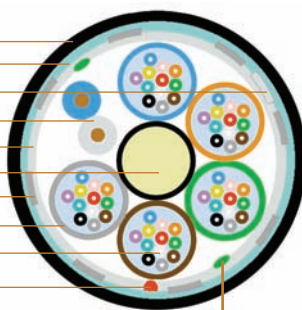
Strength Element

3.0mm Gel Filled Buffer Tube

250 micron Fiber

Ripcord

Core Binder




Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 75°C
Crush Resistance	250 lbf/in (44 N/mm)
Impact Resistance	Exceeds
Flexing	25 cycles
Twist/Bend	Exceeds

Hybrid Cables



2-12 Fiber ARID-CORE Construction and 2 pair or 5 pair 22 AWG

Product Type/ Fiber Count	Catalog Number	Outer Diameter Width x Height inch/mm	Min. Bend Loaded inch/cm	Unloaded inch/cm	Installation Loading lbs/newtons	Crush Resistance N/cm	Weight lbs/ 1000'	kg/ 1000m
1-12 Fiber 	O-XXX-DN-HY- FZZNS/XYXXX/NX22STP	.34/8.60 x 0.65/16.58	11.9/30.4	6.0/15.2	Short Term 300/1335 Long Term 90/400	220	123	183.4

Variables in the Catalog Number:

XXX = Total Fiber Count

ZZ = Number of Fibers in Tube

XY = Fiber Grade

8W (single-mode)

6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)

5L (LaserCore 300, 50μm, multimode)

5K (LaserCore 500, 50μm, multimode)

N = Pair count from two through six

X22 = Pair count X 22 AWG

STP = Shielded Twisted Pair

Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

ARID-CORE Construction Hybrid (12 Fiber, 5 Pair Shown)

Outer Jacket

Strength Elements

3.0mm buffer tube

Water blocking gel

250 μm fiber

Ripcord

Inner Jacket

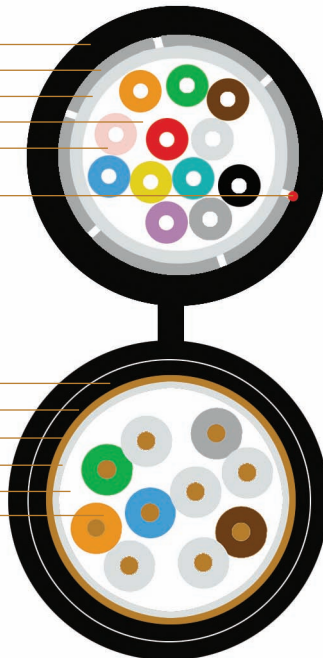
Floodant

Copper Shielding

Mylar Tape

Floodant

5 Pair/22 AWG



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 70°C
Crush Resistance	125 lbf/in (22 N/mm)
Impact Resistance	2.17 lbf-ft (2.94 N-m)
Flexing	25 cycles
Twist/Bend	Exceeds

Hybrid Cables

Single Jacket Outdoor

2-552 Fiber ARID-CORE Construction, 1-4 Copper Conductors (12 AWG)

Stranded Loose Tube

Fiber Count/ No. of Pairs	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Installation Loading lbs/newtons	Crush Resistance N/cm	Weight lbs/ 1000'	kg/ 1000m
2-48 Fiber 1-4 Copper Conductors	O-XXX-LN-HY-FZZNS/ YXXXX/NX12AWG	.44/11.3	8.9/22.6	4.4/11.3	Short Term 607/2700 Long Term 180/800	440	58	87
50-60 Fiber 1-4 Copper Conductors	O-XXX-LN-HY-FZZNS/ YXXXX/NX12AWG	.48/12.3	9.7/24.6	4.8/12.3	Short Term 607/2700 Long Term 180/800	440	71	106
62-84 Fiber 1-4 Copper Conductors	O-XXX-LN-HY-FZZNS/ YXXXX/NX12AWG	.56/14.3	11.2/28.6	5.6/14.3	Short Term 607/2700 Long Term 180/800	440	96	143
86-108 Fiber 1-4 Copper Conductors	O-XXX-LN-HY-FZZNS/ YXXXX/NX12AWG	.64/16.4	12.9/32.8	6.4/16.4	Short Term 607/2700 Long Term 180/800	440	123	184
110-132 Fiber 1-4 Copper Conductors	O-XXX-LN-HY-FZZNS/ YXXXX/NX12AWG	.73/18.5	14.5/37.0	7.3/18.5	Short Term 607/2700 Long Term 180/800	440	155	231
134-204 Fiber 1-4 Copper Conductors	O-XXX-LN-HY-FZZNS/ YXXXX/NX12AWG	.73/18.5	14.5/37.0	7.3/18.5	Short Term 607/2700 Long Term 180/800	440	140	209
206-276 Fiber 1-4 Copper Conductors	O-XXX-LN-HY-FZZNS/ YXXXX/NX12AWG	.84/21.5	16.9/43.0	8.4/21.5	Short Term 607/2700 Long Term 180/800	440	190	284

Variables in the Catalog Number:

XXX = Total Fiber Count

ZZ = Number of Fibers per Tube

XY = Fiber Grade

8W (single-mode)

6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)

5L (LaserCore 300, 50μm, multimode)

5K (LaserCore 500, 50μm, multimode)

N = Number of Copper Pairs

Fiber & Buffer Tubes
identification colors:

1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

ARID-CORE Construction Hybrid

(60 Fiber, 1 Copper Conductor Shown)

PE Outer Jacket

Binder

12 AWG Copper Conductor

Water Swellable Tape

Dielectric Strength Member

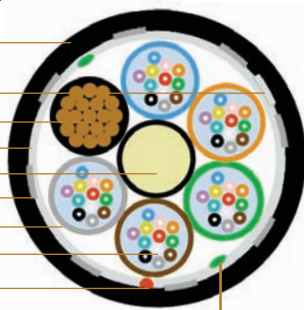
Strength Element

3.0mm Gel Filled Buffer Tube

250 micron Fiber

Ripcord

Core Binder



Mechanical Properties

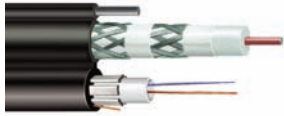
Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 75°C
Crush Resistance	250 lbf/in (44 N/mm)
Impact Resistance	Exceeds
Flexing	25 cycles
Twist/Bend	Exceeds

Hybrid Cables



Self-Supporting 1-12 Fiber ARID-CORE Construction and Brightwire™ RG-6 Quad Shield

Product Type/ Fiber Count	Catalog Number	Outer Diameter Width x Height inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Installation Loading lbs/newtons	Crush Resistance N/cm	Weight lbs/ 1000'	kg/ 1000m
1-12 Fiber	M-XXX-DN-HY-FZZNS/XYXXX/F6SSBW/GSM/40T	.30/7.62 x .75/19.17	10.4/26.4	5.2/13.2	300/1335	220	101	150



Variables in the Catalog Number:

XXX = Total Fiber Count

ZZ = Number of Fibers in Tube

XY = Fiber Grade

8W (single-mode)
6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)
5L (LaserCore 300, 50μm, multimode)
5K (LaserCore 500, 50μm, multimode)

F6SSBW = Series 6 Super Shield Brightwire

GSM = Galvanized Steel Messenger

40T = 4.0mm tube size

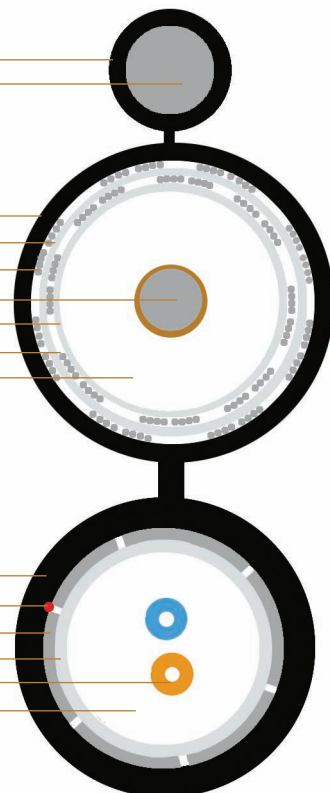
Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

ARID-CORE Construction Self-Supporting Hybrid (2 Fiber Shown)

Outer Jacket
.083" Steel Messenger Wire

Outer Jacket
Anti-Corrosion Tape
60% Aluminum Braid
.0403" CU/Steel Conductor
Anti-Corrosion Tape
40% Aluminum Braid
Dielectric

Outer Jacket
Ripcord
Strength Elements
4.0mm Buffer Tube
250 μm fiber
Gel



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 70°C
Crush Resistance	125 lbf/in (22 N/mm)
Impact Resistance	2.17 lbf-ft (2.94 N-m)
Flexing	25 cycles
Twist/Bend	Exceeds

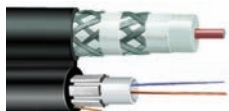


Brightwire™ is a dry, anti-corrosive treatment that chemically combines with metal components to form a protective shield against water and subsequent corrosion. (Exceeds the SCTE requirement for corrosion resistant cable.)

Hybrid Cables

2-12 Fiber ARID-CORE Construction and Brightwire™ RG-6 Quad Shield

Product Type/ Fiber Count	Catalog Number	Outer Diameter Width x Height inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Installation Loading lbs/newtons	Crush Resistance N/cm	Weight lbs/ 1000'	Weight kg/ 1000m
1-12 Fiber	O-XXX-DN-HY- FZZNS/XYXXX/ F6SSBW/40T	.30/7.62 x .59/15.08	10.4/26.4	5.2/13.2	300/1335	220	56	83



Variables in the Catalog Number:

XXX = Total Fiber Count

ZZ = Number of Fibers in Tube

XY = Fiber Grade

8W (single-mode)

6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)

5L (LaserCore 300, 50μm, multimode)

5K (LaserCore 500, 50μm, multimode)

F6SSBW = Series 6 Super Shield Brightwire

40T = 4.0mm tube size

Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

ARID-CORE Construction Hybrid
(2 Fiber Shown)

Outer Jacket

Anti-Corrosion Tape

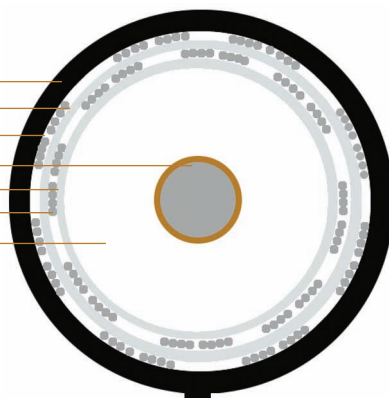
Aluminum Braid

Copper Clad Steel Conductor

Anti-Corrosion Tape

Aluminum Braid

Dielectric



Outer Jacket

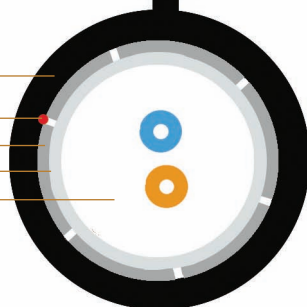
Ripcord

Strength Elements

4.0mm Buffer Tube

250 μm fiber

Gel



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 70°C
Crush Resistance	125 lbf/in (22 N/mm)
Impact Resistance	2.17 lbf-ft (2.94 N-m)
Flexing	25 cycles
Twist/Bend	Exceeds



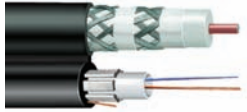
Brightwire™ is a dry, anti-corrosive treatment that chemically combines with metal components to form a protective shield against water and subsequent corrosion. (Exceeds the SCTE requirement for corrosion resistant cable.)

Hybrid Cables



2-12 Fiber ARID-CORE Construction and Brightwire™ F11 Quad Shield

Product Type/ Fiber Count	Catalog Number	Outer Diameter Width x Height inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Installation Loading lbs/newtons	Crush Resistance N/cm	Weight lbs/ 1000'	Weight kg/ 1000m
1-12 Fiber	O-XXX-DN-HY-FZZNS/ YXXXX/F11SSBW/40T	.66/16.89x .40/10.29	10.4/26.4	5.2/13.2	300/1335	220	80	119.0



Variables in the Catalog Number:

XXX = Total Fiber Count

ZZ = Number of Fibers in Tube

XY = Fiber Grade

8W (single-mode)

6F (62.5/125μm, multimode)

5M (LaserCore 150, 50μm, multimode)

5L (LaserCore 300, 50μm, multimode)

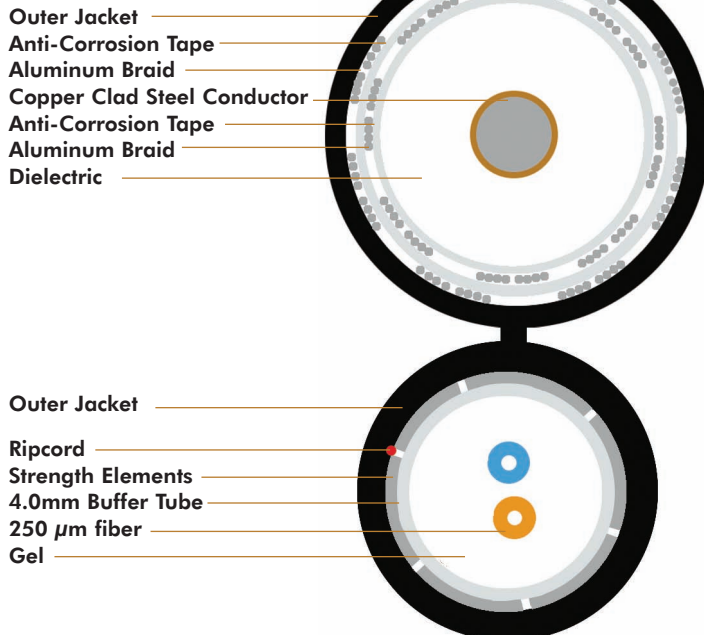
5K (LaserCore 500, 50μm, multimode)

F11SSBW = Series 11 Super Shield Brightwire

40T = 4.0mm tube size

Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

ARID-CORE Construction Hybrid (2 Fiber Shown)



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 70°C
Crush Resistance	125 lbf/in (22 N/mm)
Impact Resistance	2.17 lbf-ft (2.94 N-m)
Flexing	25 cycles
Twist/Bend	Exceeds



Brightwire™ is a dry, anti-corrosive treatment that chemically combines with metal components to form a protective shield against water and subsequent corrosion. (Exceeds the SCTE requirement for corrosion resistant cable.)

C O A X

Coax

Industrial

Coax

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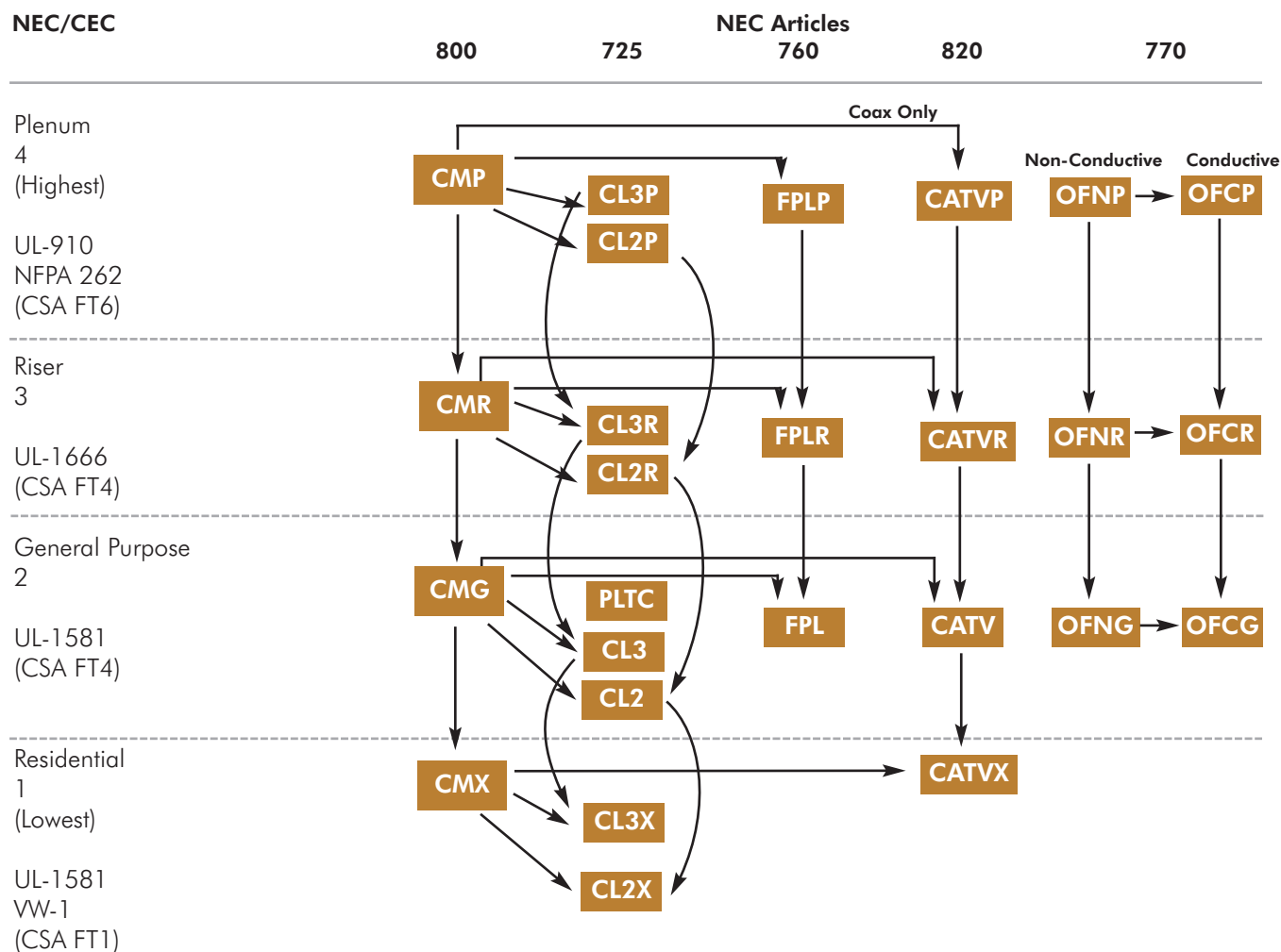
Cable Fire Ratings Matrix

For Coax Cables

As well as being manufactured to strict quality and performance standards, CommScope cables are designed to meet or exceed safety standards as set forth in the National Electric Code (NEC) and Canadian Electrical Code (CEC) for their intended applications. Use of special materials, such as our own formulation of CommFlex jacketing materials, helps maintain superior performance and handling characteristics with no loss of safety.

Types:	CMP, CMR, CMG, CM, CMX	= Communication Cables
Types:	CL3P, CL3R, CL3, CL3X, CL2P, CL2R, CL2, CL2X	= Class 2 and Class 3 Remote Control, Signaling, and Power Limited Cables
Types:	FPLP, FPLR, FPL	= Power Limited Fire Alarm Cables
Types:	CATVP, CATVR, CATV, CATVX	= CATV and Radio Distribution Cables
Types:	OFNP, OFNR, OFNG, OFN	= Nonconductive Fiber Optic Cables
Types:	OFCP, OFCR, OFCG, OFC	= Conductive Fiber Optic Cables
Types:	PLTC	= Power Limited Tray Cables

NEC/CEC



Cable Construction

Components and Abbreviation Key

Center Conductor

Conductors in coaxial cable are either solid or stranded wire. Solid conductors are described by their diameter and material (i.e. 18 AWG Solid TC) while stranded conductors include their stranding (i.e. 20 AWG (19x32 AWG) Strand TC).

- BC** - Bare Copper
- SC** - Silvered Copper
- TC** - Tinned Copper
- CCA** - Copper Clad Aluminum
- CCS** - Copper Covered Steel

Shields

Coaxial shields (also called the outer conductor) come in several varieties. Two types of coverage are: **Foil**, where aluminum is bonded to both sides of a polypropylene or polyester tape to provide 100% coverage and **Braid** where flexible wire is woven around the dielectric. Braid coverage designation is given as a percentage followed by a two letter code representing the material of the braid (i.e. 96% TC braid would be 96% coverage of a Tin Copper braid).

- AIS** - Aluminum sheath
- AI** - Aluminum braid
- BC** - Bare Copper braid
- SC** - Silver Copper braid
- TC** - Tin Copper braid

Dielectric

Most CommScope coaxial cables have foamed (or cellular) dielectrics for better velocity of propagation characteristics. Different materials are used to meet electrical and fire-safety performance.

Foam PE - Foamed Polyethylene

Solid PE - Solid Polyethylene

Foam FEP - Foamed Fluorinated Ethylene Propylene (generic or Teflon® brand)

Solid FEP - Solid Fluorinated Ethylene Propylene

AD/PE - Air Dielectric created with a Polyethylene filament

FRPE - Flame-Retardant Polyethylene

Jackets

Jacket material may vary depending on application. Plenum-rated cables provide superior fire safety, while flame-retardant PVC are used in riser, general purpose and residential situations. Outdoor cables (especially those meant for burial) are usually sheathed in polyethylene.

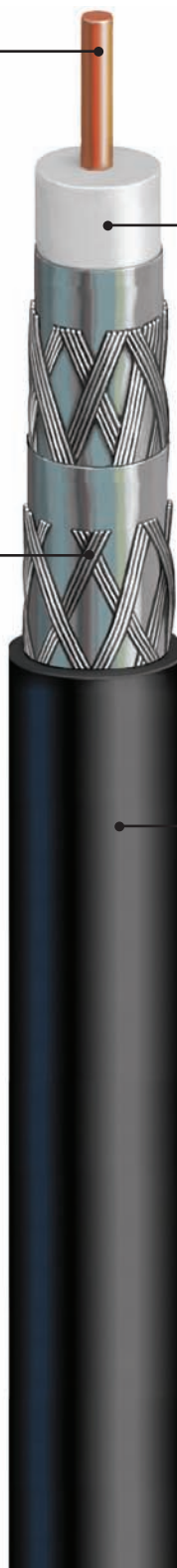
K - Kynar™ Polyvinylidene Fluoride (PVDF - used in plenum cables)

V - CommFlex, our proprietary jacketing compound (used in plenum cables)

PE - Polyethylene (Outdoor Applications)

PVC - Polyvinylchloride

Teflon is a registered trademark of E.I. DuPont de Nemours and Co.



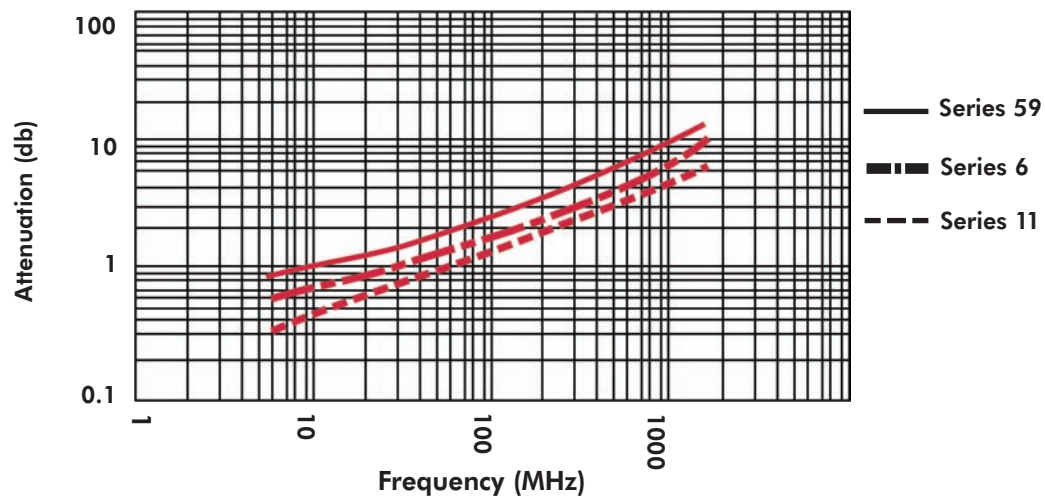
Electrical Characteristics

Attenuation

Attenuation

Attenuation is the loss of electrical power as a signal travels along a cable. There are two types of losses that affect the attenuation of a cable: loss due to conductivity of conductors (center conductor and shield) and dielectric loss. Both losses increase with frequency.

Relative Attenuation for Series 59, 6, 11 non-plenum cables



Electrical Characteristics



Capacitance and Impedance

Capacitance

Capacitance is the measurement of energy absorbed by the cable. It is caused by the difference in electrical potential of the conductors and is measured in picofarads per foot (Pf/ft). Like impedance, it is related to the inner and outer conductor sizes and the core dielectric constant. In a given cable design, capacitance and impedance are inversely proportional.

Capacitance is determined by the formula
$$\frac{7.354 E_r}{\log_{10} \frac{D}{ad}}$$

where E_r is the dielectric constant of the cable core, D is the dielectric diameter, d is the conductor diameter and a is the conductor stranding factor.

Impedance

Characteristic impedance is a measurement of resistance to the electrical current being carried in a cable. It is measured in units called ohms (Z_O) and is directly related to the ratio between inner conductor dimension and the outer conductor dimension, and inversely related to the dielectric constant of the cable core. Unlike conductor resistance, impedance does not vary with cable length.

For a system to work at maximum efficiency, the nominal impedance of the transmitter, receiver and cable must precisely match. An incorrect match will produce reflection loss.

Nominal impedance is determined by the formula
$$Z_O (\Omega) = \frac{138.2}{\sqrt{E_r}} \log_{10} \frac{D}{ad}$$

The factors are the same as they are for capacitance above.

Uniprise

Copper

Fiber

Coax

Multi-Conductor

Conduit

Packaging

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Electrical Characteristics

Shield Performance

Shield performance

Braid shields are composed of thin strands of tinned or bare copper wires interwoven around the conductors within a cable. In addition to providing excellent shielding properties, braid shields are very flexible and add to the structural integrity of the cable.

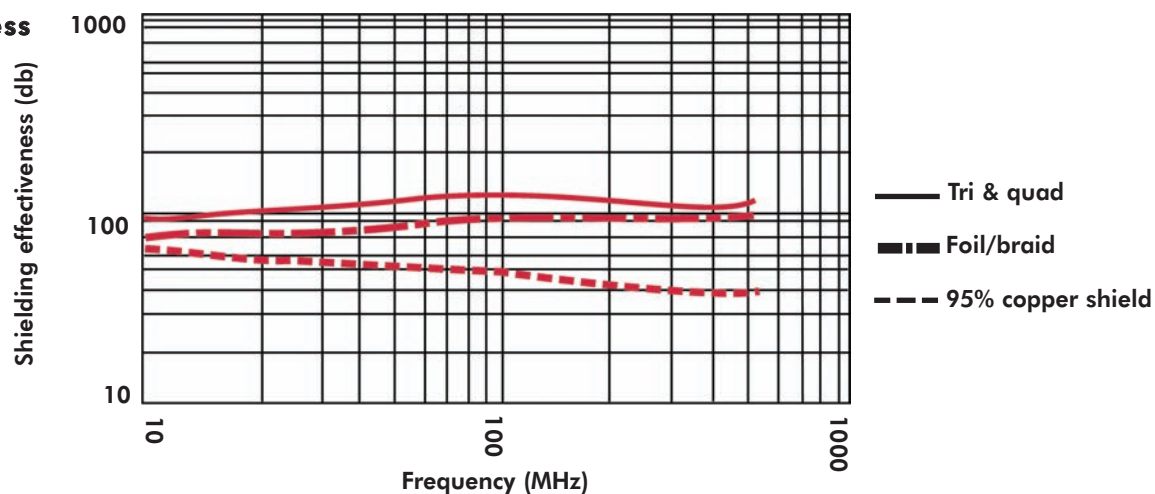
Braid shields differ widely in their construction; braid angle, strand diameter, wire type, numbers of ends per carrier and the number of carriers contribute to the effectiveness of the shield. Shield coverage varies between 40% and 95% for single braids and up to 98% for double braids.

Foil/braid combination shields consist of a tinned copper or aluminum braid over an aluminum/polyester or aluminum/polypropylene foil tape. Braid coverage varies between 40% and 95%. However, aluminum foil coverage is 100%.

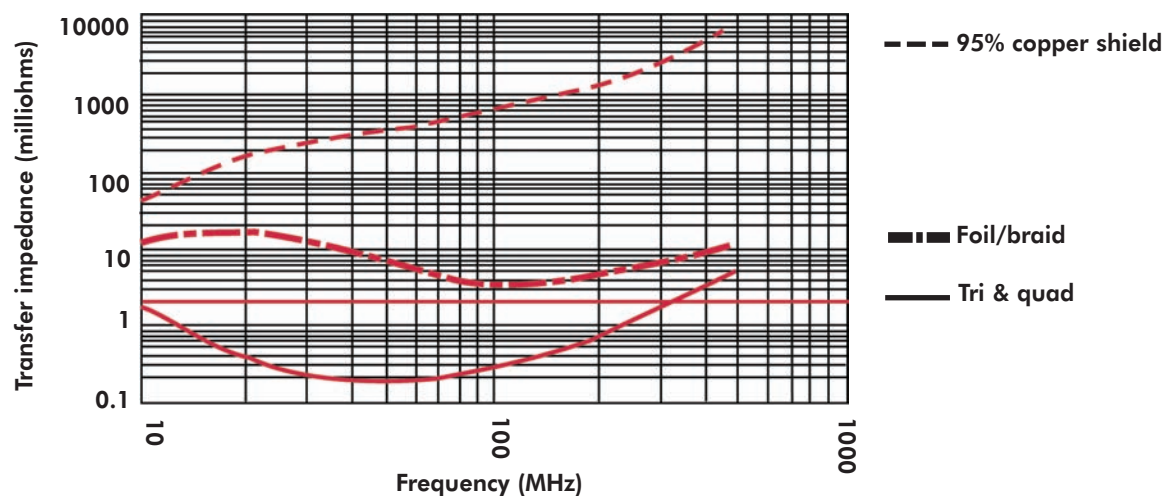
To gain greater shield effectiveness, an additional layer of foil is placed over the existing foil and braid which produces a Tri Shield cable. The highest grade shield effectiveness is found in Quad Shield cables. A Quad Shield coverage design consists of an aluminum foil with a 60% braid covered by an additional foil and 40% braid.

As shown in the graphs below, combination shields are more effective and offer better transfer impedance properties than single braid shields. Quad shielding also offers better long term performance because it is less effected by repeated flexing.

Shield effectiveness



Transfer impedance



Electrical Characteristics



Structural Return Loss, Tilt and Velocity of Propagation

Structural Return Loss

Structural return loss is the measure of power loss on a cable or system and is caused by discontinuities in the cable conductor or dielectric. If these discontinuities are regularly spaced along a cable, they can cause severe transmission losses for frequencies whose wavelengths are twice that of the distance between these discontinuities.

Structural return loss is an unfavorable characteristic of poorly-made cable, although careless installation can cause it as well. CommScope manufacturing lines are constantly computer monitored to avoid irregularities in the manufacturing process that could cause these flaws. Additionally, every reel of CommScope coaxial cable is sweep-tested prior to shipping.

Tilt

Another problem caused by different characteristics of low and high frequency signals is tilt. Although they are faster, high-frequency signals tend to lose power more quickly over distance than lower frequency signals. This power loss, called attenuation, is expressed in decibels (see attenuation above for more details) and the difference between the attenuations of the high and low frequency signals for the entire length of an installed cable in a carrier band system cannot exceed a certain tilt factor expressed in decibels (dB).

Tilt determines the maximum length of a cable segment in a carrier band network and is determined by where N is the maximum allowable tilt permitted by the system, A_1 is the attenuation of the high frequency signal and A_2 is the attenuation of the low frequency signal.

$$\frac{N}{A_1 - A_2}$$

Velocity of Propagation











Nominal velocity of propagation is the speed of the signal in a given cable. In a vacuum, electromagnetic radiation (light, radio waves, etc.) travels at the speed of light. In a cable, it travels somewhat slower and in direct inverse proportion to the dielectric constant; the lower the dielectric constant, the closer to the speed of light the signal travels.

Velocity of propagation is given as a percent figure of the speed of light and is calculated by where E_r is the dielectric constant of the cable core.

$$\frac{1}{\sqrt{E_r}} \times 100$$

Broadband Video/Video Distribution, MATV

75Ω Coax Cables, Series 59 (RG 59 Type)

Catalog Number Safety Rating Packaging Options	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Color & Dimensions in / mm.	Nominal Capacitance		Nom Vel. of Prop.	Nom Imp.	Typical Attenuation		
						pF/ft	pF/m			MHz	dB/100'	dB/100m
2020K/2020V Plenumax  NEC CMP CEC CMP 	20 AWG Solid CCS 48.2Ω/158Ω	Foam FEP .135/3.43	Al foil and 65% Al braid 10.3Ω/33.8Ω	PVDF(K) .015/.38 CommFlex(V) .015/.38	Cream .202/5.1 White .202/5.1	16.0	52.5	84%	75Ω	1	0.48	1.56
										10	0.88	2.87
										50	1.85	6.07
										100	2.51	8.24
										200	3.58	11.73
										400	5.50	18.04
										700	7.45	24.44
										900	8.70	28.54
										1000	9.31	30.55
2022V Plenumax  NEC CMP CEC CMP 	20 AWG Solid CCS 48.2Ω/158Ω	Foam FEP .135/3.43	Quad shield Al foil, 60% Al braid, Al foil and 40% Al braid 6.3Ω/20.7Ω	CommFlex(V) .015/.38	White .235/6.0	16.0	52.5	84%	75Ω	1	0.48	1.56
										10	0.88	2.87
										50	1.85	6.07
										100	2.51	8.24
										200	3.58	11.73
										400	5.50	18.04
										700	7.45	24.44
										900	8.70	28.54
										1000	9.31	30.55
2041K Plenumax  NEC CMP CEC CMP 	23 AWG Solid CCS 47.0Ω/143Ω	Solid FEP .135/3.43	93% BC braid 3.6Ω/11.8Ω	PVDF (K) .016/.41	Cream .197/5.0	19.5	59.4	66%	75Ω	1	0.40	1.21
										10	1.04	3.17
										50	2.43	7.41
										100	3.55	10.82
										200	5.29	16.12
										400	8.50	24.54
										700	11.67	35.57
										900	13.89	42.34
										1000	14.92	45.48
2045V Plenumax  NEC CMP CEC CMP 	20 AWG Solid CCS 48.2Ω/158Ω	Foam FEP .135/3.43	Al foil and 90% TC braid 3.2Ω/10.5Ω	CommFlex(V) .015/.38	White .202/5.1	16.0	52.5	84%	75Ω	1	0.48	1.56
										10	0.88	2.87
										50	1.85	6.07
										100	2.51	8.24
										200	3.58	11.73
										400	5.50	18.04
										700	7.45	24.44
										900	8.70	28.54
										1000	9.31	30.55
P59DSCCS  NEC CMP CEC CMP 	20 AWG CCS 48.2Ω/158.1Ω	Foam FEP .135/3.43	Al foil and 65% AL braid 10.5Ω/34.4Ω	Plenum PVC .015/3.81	Cream .202/5.1	16.0	52.5	84%	75Ω	1	0.48	1.57
										10	0.88	2.89
										50	1.85	6.07
										100	2.51	8.23
										200	3.58	11.74
										400	5.50	18.04
										700	7.45	24.44
										900	8.70	28.54
										1000	9.31	30.54

Specifications subject to change without notice.












Plenumax is a trademark for CommScope plenum products.

 = 1000ft. Reel

Broadband Video/Video Distribution, MATV



75Ω Coax Cables, Series 59 (RG 59 Type)

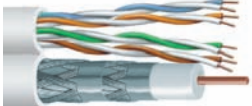



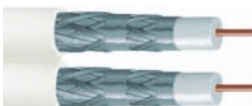









Catalog Number Safety Rating Packaging Options	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Color & Dimensions in / mm.	Nominal Capacitance		Nom Vel. of Prop.	Nom Imp.	Typical Attenuation												
						pF/ft	pF/m			MHz	dB/100'	dB/100m										
<div>5540</div> <div></div> <div>NEC CM CEC CMH </div>	20 AWG Solid CCS 48.2Ω/158Ω	Foam PE .144/3.66	Quad shield Al foil, 53% Al braid, Al foil and 35% braid 6.2Ω/20.3Ω	Flame- retardant PVC .035/.89	Black .265/6.7	16.0	52.5	84%	75Ω	1	0.58	1.90										
										10	0.89	2.92										
										50	1.81	5.94										
										100	2.48	8.13										
										200	3.43	11.25										
										400	4.88	16.01										
										700	6.56	21.52										
										900	7.48	24.53										
										1000	7.91	25.94										
										<div>5555</div> <div></div> <div>NEC CM CEC CMH </div>	22 AWG Solid CCS 37.5Ω/123Ω	Foam PE .144/3.66	93% BC braid 3.9Ω/12.8Ω	Flame- retardant PVC .037/.94	Black .242/6.1	16.3	53.5	78%	80Ω	1	0.30	0.98
10	0.92	3.02																				
100	2.90	9.51																				
400	5.90	19.35																				
700	7.80	25.58																				
900	8.80	28.86																				
1000	9.30	30.50																				
<div>5572</div> <div></div> <div>NEC CM CEC CMH </div>	20 AWG Solid CCS 48.2Ω/158Ω	Foam PE .144/3.66	Al foil and 67% Al braid 10.5Ω/34.5Ω	Flame- retardant PVC .035/.89	Black .242/6.1	16.0	52.5	82%	75Ω											1	0.58	1.90
																				10	0.89	2.92
																				50	1.81	5.94
										100	2.48	8.13										
										200	3.43	11.25										
										400	4.88	16.01										
										700	6.56	21.52										
										900	7.48	24.53										
										1000	7.91	25.94										
										<div>5572R NEC CMR CEC CMR </div>	5572R is a riser version of 5572 with identical electrical characteristics											
<div>5573</div> <div></div> <div>NEC CM CEC CMH </div>	20 AWG Solid CCS 48.2Ω/158Ω	Foam PE .144/3.66	Al foil and 95% Al braid 7.3Ω/24.0Ω	Flame- retardant PVC .035/.89	Black .242/6.1	16.0	52.5	82%	75Ω	1	0.58	1.90										
										10	0.89	2.92										
										50	1.81	5.94										
										100	2.48	8.13										
										200	3.43	11.25										
										400	4.88	16.01										
										700	6.56	21.52										
										900	7.48	24.53										
										1000	7.91	25.94										
										<div>5574 Burial</div> <div></div> <div>Outdoor/ Flooded </div>	20 AWG Solid CCS 48.2Ω/158Ω	Foam PE .144/3.66	Al foil and 67% Al braid 10.5Ω/34.5Ω	PE with Floodant .032/.81	Black .240/6.1	16.0	52.5	82%	75Ω	1	0.58	1.90
10	0.89	2.92																				
50	1.81	5.94																				
100	2.48	8.13																				
200	3.43	11.25																				
400	4.88	16.01																				
700	6.56	21.52																				
900	7.48	24.53																				
1000	7.91	25.94																				

Specifications subject to change without notice.

 = 1000ft. Reel

Broadband Video/Video Distribution/MATV

75Ω Coax Cables, Series 6 (RG 6 Type)











Catalog Number Safety Rating Packaging Options	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Color & Dimensions in / mm.	Nominal Capacitance		Nom Vel. of Prop.	Nom Imp.	Typical Attenuation												
						pF/ft	pF/m			MHz	dB/100'	dB/100m										
<div>2210V</div> <div></div> <div>NEC CMP CEC CMP</div> <div></div>	Eight 24 AWG BC Four Pair (Category 5e) 28.6Ω/93.8Ω One 18 AWG Solid BC Coax 6.4Ω/21.0Ω	Foam FEP .170/4.32	Quad shield Al Foil, 60% Al Braid Al Foil and 40% Al Braid 5.3Ω/17.4Ω	CommFlex TP: .014/.36 Coax: .016/.41	White .266/.87 by .481/1.58 wide	16.0	52.5	U/UTP: 71% Coax: 84%	100Ω 75Ω	1	0.26	0.85										
										10	0.70	2.30										
										50	1.48	4.85										
										100	2.01	6.59										
										200	2.86	9.38										
										400	4.23	13.87										
										700	5.96	19.55										
										900	6.96	22.83										
										1000	7.45	24.44										
										<div>2227K/2227V Plenumax</div> <div></div> <div>NEC CMP CEC CMP</div> <div></div>	18 AWG Solid CCS 28.6Ω/93.8Ω	Foam FEP .170/4.32	Quad shield Al foil, 60% Al braid, Al foil and 40% Al braid 5.3Ω/17.4Ω	PVDF(K) .015/.41 CommFlex(M) .015/.41	Cream .260/6.6 White .260/6.6	16.0	52.5	84%	75Ω	1	0.38	1.25
10	0.70	2.30																				
50	1.48	4.85																				
100	2.01	6.59																				
200	2.86	9.38																				
400	4.23	13.87																				
700	5.96	19.55																				
900	6.96	22.83																				
1000	7.45	24.44																				
<div>2220V Plenumax</div> <div></div> <div>NEC CMP CEC CMP</div> <div></div>	2220 is a dual version of 2227 with identical electrical characteristics								1											0.38	1.25	
	10	0.70	2.30																			
	50	1.48	4.85																			
	100	2.01	6.59																			
	200	2.86	9.38																			
	400	4.23	13.87																			
	700	5.96	19.55																			
	900	6.96	22.83																			
	1000	7.45	24.44																			
	1200	8.25	24.75																			
<div>2229V Plenumax</div> <div></div> <div>NEC CMP CEC CMP</div> <div></div>	18 AWG Solid BC 6.5Ω/21.2Ω	Foam FEP .170/4.32	Quad shield Al foil, 60% Al braid, Al foil and 40% Al braid, 5.3Ω/17.4Ω	CommFlex(M) .016/.41	White .260/6.6	16.0	52.5	84%	75Ω	1	0.26	0.85										
										10	0.70	2.30										
										50	1.48	4.85										
										100	2.01	6.59										
										200	2.86	9.38										
										400	4.23	13.87										
										700	5.96	19.55										
										900	6.96	22.83										
										1000	7.45	24.44										
										1200	8.25	24.75										
<div>2274V Plenumax</div> <div></div> <div>NEC CMP CEC CMP</div> <div></div>	18 AWG Solid BC 6.5Ω/21.2Ω	Foam FEP .170/4.32	Al foil and 60% Al braid 9.0Ω/21.0Ω	CommFlex(M) .016/.41	Cream .239/6.1 White .239/6.1	16.0	52.5	84%	75Ω	1450	9.34	28.02										
										1800	10.69	32.07										
										2200	11.54	34.62										
										3000	13.07	42.87										
										<div>2275K/2275V Plenumax</div> <div></div> <div>NEC CMP CEC CMP</div> <div></div>	18 AWG Solid CCS 28.6Ω/93.8Ω	Foam FEP .170/4.32	Al foil and 60% Al braid 9.0Ω/21.0Ω	PVDF(K) .016/.41 CommFlex(M) .015/.41	Cream .239/6.1 White .239/6.1	16.0	52.5	84%	75Ω	1	0.38	1.25
																				10	0.70	2.30
																				50	1.48	4.85
																				100	2.01	6.59
																				200	2.86	9.38
																				400	4.23	13.87
700	5.96	19.55																				
900	6.96	22.83																				
1000	7.45	24.44																				
<div>0359V Plenumax</div> <div></div> <div>NEC CMP CEC CMP</div> <div></div>	18 AWG Solid CCS 28.6Ω/93.8Ω	Foam FEP .170/4.32	Al foil and 60% Al braid 9.0Ω/29.5Ω	CommFlex(M) .016/.41	White .239/6.1	16.0	52.5	84%	75Ω											1	0.38	1.25
										10	0.70	2.30										
										50	1.48	4.85										
										100	2.01	6.59										
										200	2.86	9.38										
										400	4.23	13.87										
										700	5.96	19.55										
										900	6.96	22.83										
										1000	7.45	24.44										
										1200	8.25	27.06										
1450	9.34	30.64																				
1800	10.69	35.06																				
2200	11.54	37.85																				
2500	11.70	35.66																				
3000	13.07	39.84																				

1000 = 1000ft. Reel

Broadband Video/Video Distribution, MATV









75Ω Coax Cables, Series 6 (RG 6 Type)

Catalog Number Safety Rating Packaging Options	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Color & Dimensions in / mm.	Nominal Capacitance		Nom Vel. of Prop.	Nom Imp.	Typical Attenuation		
						pF/ft	pF/m			MHz	dB/100'	dB/100m
2276V Plenumax  NEC CMP CEC CMP 	18 AWG Solid CCS 28.6Ω/93.8Ω	Foam FEP .170/4.32	Al foil and 90% Al braid 6.4Ω/21.0Ω	CommFlex(M) .014/.36	Black White .237/6.1	16.0	52.5	84%	75Ω	1	0.26	0.85
										10	0.70	2.30
										50	1.48	4.85
										100	2.01	6.59
										200	2.86	9.38
										400	4.23	13.87
										700	5.96	19.55
										900	6.96	22.83
										1000	7.45	24.44
										1200	8.25	24.75
										1450	9.34	28.02
										1800	10.69	32.07
										2200	11.54	34.62
										3000	13.07	42.87
2279V Plenumax  NEC CMP CEC CMP 	18 AWG Solid BC 6.5Ω/21.2Ω	Foam FEP .170/4.32	Al foil and 95% TC braid 2.8Ω/9.3Ω	CommFlex(M) .015/.406	White .237/6.02	16.0	52.5	84%	75Ω	1	0.26	0.85
										3.6	0.47	1.54
										10	0.70	2.30
										71.5	1.65	5.41
										135	2.39	7.84
										270	3.40	11.15
										360	4.08	13.38
										720	6.05	19.84
										1000	7.45	24.44
										1450	9.34	30.64
										1800	10.69	35.06
										2200	11.54	37.85
										3000	13.07	42.87
2281V  NEC CMP CEC CMP 	18 AWG Solid CCS 28.6Ω/93.8Ω	Foam FEP .170/4.32	Al foil, 77% Al braid and Al foil 2.8Ω/9.3Ω	Flame- retardant PVC .017/.432	White .248/6.29	15.5	47.2	84%	75Ω	1	0.38	1.25
										10	0.70	2.30
										50	1.48	4.85
										100	2.01	6.59
										200	2.86	9.38
										400	4.23	13.78
										700	5.96	19.55
										900	6.96	22.83
										1000	7.45	24.44
										1450	9.34	30.64
										1800	10.69	35.06
										2200	11.54	37.85
										3000	13.07	42.87
0694  CATV 	18 AWG Solid CCS 28.6Ω/93.8Ω	Foam PE .180/4.57	Al foil and 77% AL braid and AL foil 37.1Ω/121.7Ω	Flame- retardant PVC .030/.76	Black .278/7.06	16.0	52.5	82%	75Ω	1	0.37	1.12
										10	0.66	2.01
										50	1.41	4.30
										100	1.92	5.85
										200	2.64	8.05
										400	3.73	11.37
										700	5.05	15.39
										900	5.79	17.65
										1000	6.11	18.62
										1450	7.49	24.57
										1800	8.43	27.65
										2200	9.35	30.67
										3000	10.92	35.82
5715  NEC CM CEC CMH AWM Style 1354 	18 AWG Solid BC 6.5Ω/21.2Ω	Foam PE .180/4.57	Al foil and 60% TC braid 9.0Ω/29.5Ω	Flame- retardant PVC .030/.76	Black .272/6.9	16.2	53.1	82%	75Ω	1	0.25	0.82
										10	0.66	2.16
										50	1.41	4.62
										100	1.92	6.30
										200	2.64	8.66
										400	3.73	12.23
										700	5.05	16.56
										900	5.79	18.99
										1000	6.11	20.04
										1450	7.49	24.57
										1800	8.43	27.65
										2200	9.35	30.67
										3000	10.92	35.82

 = 1000ft. Reel

Broadband Video/Video Distribution, MATV

75Ω Coax Cables, Series 6 (RG 6 Type)

Catalog Number Safety Rating Packaging Options	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Color & Dimensions in / mm.	Nominal Capacitance		Nom Vel. of Prop.	Nom Imp.	Typical Attenuation		
						pF/ft	pF/m			MHz	dB/100'	dB/100m
<div>5717</div> <div></div> <div><div>NECCMG</div><div>CECCMG</div><div>1000</div></div>	18 AWG Solid CCS 28.6Ω/93.8Ω	Foam PE .180/4.57	Al foil and 55% Al braid 10.0Ω/32.8Ω	Flame- retardant PVC .032/.82	Black 270/6.9	16.0	52.5	82%	75Ω	1	0.37	1.21
										10	0.66	2.16
										50	1.41	4.62
										100	1.92	6.30
										200	2.64	8.66
										400	3.73	12.23
										700	5.05	16.56
										900	5.79	18.99
										1000	6.11	20.04
										1200	6.73	22.07
										1450	7.49	24.57
										1800	8.43	27.65
										2200	9.35	30.67
										3000	10.92	35.82
<div>5722 w/0.051" Mess. Aerial</div> <div></div> <div><div>Outdoor</div><div>1000</div></div>	18 AWG Solid CCS 28.6Ω/93.8Ω	Foam PE .180/4.57	Al foil and 60% Al braid 9.7Ω/31.8Ω	Flame- retardant PVC .030/.76	Black .272/6.9 by .413/10.4 wide	16.2	53.1	82%	75Ω	1	0.37	1.21
										10	0.66	2.16
										50	1.41	4.62
										100	1.92	6.30
										200	2.64	8.66
										400	3.73	12.23
										700	5.05	16.56
										900	5.79	18.99
										1000	6.11	20.04
										1450	7.49	24.57
										1800	8.43	27.65
										2200	9.35	30.67
										3000	10.92	35.82
										<div>5727</div> <div></div> <div><div>NECCM</div><div>CECCMH</div><div>1000</div></div>	18 AWG Solid CCS 28.6Ω/93.8Ω	Foam PE .180/4.57
<div>5729</div> <div></div> <div><div>NECCM</div><div>CECCM</div><div></div></div>	18 AWG Solid BC 6.5Ω/21.2Ω	Foam PE .180/4.57	Al foil and 60% Al braid 9.7Ω/31.8Ω	Flame- retardant PVC .030/.76	Black White Grey .272/6.9	16.0	52.5	82%	75Ω			
										<div>5729G</div> <div></div> <div><div>NECCMG</div><div>CECCM</div><div>1000</div></div>	5729G is a CMG rated version of 5729 with identical electrical characteristics	
<div>5731</div> <div></div> <div><div>NECCM</div><div>CECCM</div><div>1000</div></div>	5731 has the same electrical characteristics as 5729 with a 17 AWG CCS ground wire				Black White Grey .272/6.9 by .427/10.8 wide							








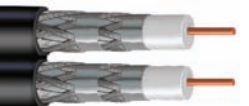

Specifications subject to change without notice. CommScope satellite products are swept tested to 3000 MHz. Plenumax is a trademark for CommScope plenum products.

 = 1000ft. Reel

Broadband Video/Video Distribution, MATV









75Ω Coax Cables, Series 6 (RG 6 Type)

Catalog Number Safety Rating Packaging Options	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Color & Dimensions in / mm.	Nominal Capacitance		Nom Vel. of Prop.	Nom Imp.	Typical Attenuation						
						pF/ft	pF/m			MHz	dB/100'	dB/100m				
5733  	18 AWG Solid CCS 28.6Ω/93.8Ω	Foam PE .180/4.57	Al foil and 90% Al Braid 7.0Ω/23.0Ω	PVC .030/.76	Black .272/6.9	16.0	52.5	82%	75Ω	1	0.37	1.21				
										10	0.66	2.16				
										50	1.41	4.62				
										100	1.92	6.30				
										200	2.64	8.66				
										400	3.73	12.23				
										700	5.05	16.56				
										900	5.79	18.99				
										1000	6.11	20.04				
										1200	6.73	22.07				
5740R  NEC CMR CEC CMG 	18 AWG Solid CCS 28.6Ω/93.8Ω	Foam PE .180/4.57	Quad shield Al foil, 60% Al braid, Al foil, 40% Al braid 4.9Ω/16.1Ω	Flame- retardant PVC .033/.84	Black .300/7.6	16.2	53.1	82%	75Ω	1450	7.49	24.57				
										1800	8.43	27.65				
										2200	9.35	30.67				
5781 Quad Shield  NEC CM CEC CMG  	18 AWG Solid BC 6.4Ω/21.2Ω	Foam PE .180/4.57	Quad shield Al foil, 60% Al braid, Al foil, 40% Al braid 4.9Ω/16.1Ω	Flame- retardant PVC .034/.84	Black White .300/7.6	16.2	53.1	82%	75Ω							
5782 Quad Shield  NEC CM CEC CMG 	5782 is a dual cable version of 5781 with identical electrical characteristics and				Black White .300/7.6 by .630/16.0 wide					1	0.25	0.82				
									10	0.66	2.16					
									50	1.41	4.62					
									100	1.92	6.30					
									200	2.64	8.66					
									400	3.73	12.23					
									700	5.05	16.56					
									900	5.79	18.99					
									1000	6.11	20.04					
									1200	6.73	22.07					
									1450	7.49	24.57					
									1800	8.43	27.65					
									2200	9.35	30.67					

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Broadband Video/Video Distribution, MATV




















75Ω Coax Cables, Series 6 (RG 6 Type)

Catalog Number Safety Rating Packaging Options	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Color & Dimensions in / mm.	Nominal Capacitance		Nom Vel. of Prop.	Nom Imp.	Typical Attenuation		
						pF/ft	pF/m			MHz	dB/100'	dB/100m
5741 Burial  	18 AWG Solid CCS 28.6Ω/93.8Ω	Foam PE .180/4.57	Quad shield Al foil, 60% Al braid, Al foil and 40% Al braid 4.9Ω/16.1Ω	PE with Floodant .034/.84	Black .300/7.6	16.2	53.1	82%	75Ω	1	0.37	1.21
										10	0.66	2.16
										50	1.41	4.62
										100	1.92	6.30
										200	2.64	8.66
										400	3.73	12.23
										700	5.05	16.56
										900	5.79	18.99
										1000	6.11	20.04
										1200	6.73	22.07
										1450	7.49	24.57
										1800	8.43	27.65
										2200	9.35	30.67
										3000	10.92	35.82
5743   NEC CM CEC CMH	18 AWG Solid CCS 28.6Ω/93.8Ω	Foam PE .180/4.57	Quad shield Al Foil 55% Al Braid Al Foil and 35% Al Braid 5.3Ω/17.4Ω	Flame- retardant PVC .034/.86	Black .298/7.6	16.0	52.5	82%	75Ω	1	0.37	1.21
										10	0.66	2.16
										50	1.41	4.62
										100	1.92	6.30
										200	2.64	8.66
										400	3.73	12.23
										700	5.05	16.56
										900	5.79	18.99
										1000	6.11	20.04
										1200	6.73	22.07
										1450	7.49	24.57
										1800	8.43	27.65
										2200	9.35	30.67
										3000	10.92	35.82
5765   NEC CMR CEC CMR	18 AWG Solid BC 6.5Ω/21.2Ω	Foam PE .180/4.57	Al foil and 95% TC braid 2.0Ω/6.6Ω	Flame- retardant PVC .033/.84	Various colors .272/6.9	16.2	53.1	82%	75Ω	1	0.25	0.69
										3.6	0.45	1.48
										10	0.72	2.36
										71.5	1.70	5.58
										135	2.25	7.38
										270	3.10	10.17
										360	3.65	11.97
										720	5.30	17.38

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Broadband Video/Video Distribution, MATV

75Ω Coax Cables, Series 6 (RG 6 Type)

Catalog Number Safety Rating Packaging Options	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Color & Dimensions in / mm.	Nominal Capacitance		Nom Vel. of Prop.	Nom Imp.	Typical Attenuation					
						pF/ft	pF/m			MHz	dB/100'	dB/100m			
5730/5730G  NEC CM CEC CMH/G  	18 AWG Solid CCS 28.6Ω/93.8Ω	Foam PE .180/4.57	Al foil and 60% Al braid 9.7Ω/31.8Ω	Flame- retardant PVC .030/.76	Black White Grey Beige .272/6.9	16.2	53.1	82%	75Ω	1	0.37	1.21			
5786/5786G  NEC CM CEC CMH/G 	5786 is a dual cable version of 5730 with identical electrical characteristics				Black White Grey .272/6.9 by .575/14.6 wide					10	0.66	2.16			
									50	1.41	4.62				
									100	1.92	6.30				
									200	2.64	8.66				
									400	3.73	12.23				
									700	5.05	16.56				
									900	5.79	18.99				
									1000	6.11	20.04				
									1200	6.73	22.07				
									1450	7.49	24.57				
									1800	8.43	27.65				
									2200	9.35	30.67				
									3000	10.92	35.82				
5788  NEC CM CEC CMH/G 	5788 is a dual cable version of 5730 with identical electrical characteristics and a 17 AWG CCS ground wire				Black .272/6.9 by .720/18.3 wide										
5732 w/0.0453" ground  NEC CM CEC CMH 	18 AWG Solid CCS 28.6Ω/93.8Ω	Foam PE .180/4.57	Al foil and 60% Al braid 9.7Ω/31.8Ω	Flame- retardant PVC .030/.76	Black .272/6.9	16.0	52.5	82%	75Ω						
5738 Burial  	5738 is a dual cable version of 5730 with identical electrical characteristics and a 17 AWG CCS ground wire				Black .272/6.9	16.2	53.1	82%	75Ω						
NP6DSCCS  NEC CM(UL) CEC C(UL) 	NP6DSCCS is a dual cable version of 5730 with identical electrical characteristics and a 17 AWG CCS ground wire				Black .272/6.9	16.0	52.5	82%	75Ω						
NP6QSCCS  NEC CMG/C CEC CMH 	NP6QSCCS is a dual cable version of 5730 with identical electrical characteristics and a 17 AWG CCS ground wire				Black .300/7.6	16.0	52.5	82%	75Ω						
NP6DSBC  NEC CM(ETL) CEC C(ETL) 	NP6DSBC is a dual cable version of 5730 with identical electrical characteristics and a 17 AWG CCS ground wire				Black .272/6.9	16.0	52.5	82%	75Ω	1	0.25	0.82			
													10	0.66	2.16
													50	1.41	4.62
													100	1.92	6.30
													200	2.64	8.66
													400	3.73	12.23
													700	5.05	16.56
													900	5.79	18.99
													1000	6.11	20.04
													1200	6.73	22.07
													1450	7.49	24.57
													1800	8.43	27.65
													2200	9.35	30.67
								3000	10.92	35.82					
NP6QSBC  NEC CMG(UL) CEC C(UL) 	NP6QSBC is a dual cable version of 5730 with identical electrical characteristics and a 17 AWG CCS ground wire				Black .300/7.6	16.0	52.5	82%	75Ω						











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75Ω Coax Cables, Series 6 (RG 6 Type)

Catalog Number Safety Rating Packaging Options	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Color & Dimensions in / mm.	Nominal Capacitance pF/ft pF/m		Nom Vel. of Prop.	Nom Imp.	Typical Attenuation		
										MHz	dB/100'	dB/100m
<div>5781 Quad Shield</div> <div></div> <div>NEC CM CEC CMG </div>	18 AWG Solid BC 6.4Ω/21.2Ω	Foam PE .180/4.57	Quad shield Al foil, 60% Al braid, Al foil, 40% Al braid 4.9Ω/16.1Ω	Flame- retardant PVC .033/.83	Black White .300/7.6	16.2	53.1	82%	75Ω	1	0.25	0.82
										10	0.66	2.16
										50	1.41	4.62
										100	1.92	6.30
										200	2.64	8.66
										400	3.73	12.23
										700	5.05	16.56
										900	5.79	18.99
										1000	6.11	20.04
										1200	6.73	22.07
										1450	7.49	24.57
										1800	8.43	27.65
										2200	9.35	30.67
										3000	10.92	35.82
<div>5782 Quad Shield</div> <div></div> <div>NEC CM CEC CMG </div>	5782 is a dual cable version of 5781 with identical electrical characteristics				Black White .300/7.6 by .630/16.0 wide				1	0.25	0.82	
	10	0.66	2.16									
	50	1.41	4.62									
	100	1.92	6.30									
	200	2.64	8.66									
	400	3.73	12.23									
	700	5.05	16.56									
	900	5.79	18.99									
	1000	6.11	20.04									
	1200	6.73	22.07									
	1450	7.49	24.57									
	1800	8.43	27.65									
	2200	9.35	30.67									
	3000	10.92	35.82									
<div>5773</div> <div></div> <div>NEC CM CEC CMH </div>	5773 is a dual cable version of 5729 with identical electrical characteristics				Black .272/6.9	16.0	52.5	84%	75Ω	1	0.25	0.82
	10	0.66	2.16									
	50	1.41	4.62									
	100	1.92	6.30									
	200	2.64	8.66									
	400	3.73	12.23									
	700	5.05	16.56									
	900	5.79	18.99									
	1000	6.11	20.04									
	1200	6.73	22.07									
	1450	7.49	24.57									
	1800	8.43	27.65									
	2200	9.35	30.67									
	3000	10.92	35.82									
<div>5787 Burial</div> <div></div> <div>Outdoor </div>	18 AWG Solid CCS 28.6Ω/93.8Ω	Foam PE .180/4.57	Al foil and 60% Al braid 9.7Ω/31.8Ω	PE with Floodant .272/6.91	Black .272/6.91 by .585/14.9 wide	16.2	53.1	82%	75Ω	1	0.37	1.21
										10	0.66	2.16
										50	1.41	4.62
										100	1.92	6.30
										200	2.64	8.66
										400	3.73	12.23
										700	5.05	16.56
										900	5.79	18.99
										1000	6.11	20.04
										1200	6.73	22.07
										1450	7.49	24.57
										1800	8.43	27.65
										2200	9.35	30.67
										3000	10.92	35.82
<div>5789 Burial</div> <div></div> <div>Outdoor </div>	18 AWG Solid CCS 28.6Ω/93.8Ω	Foam PE .180/4.57	Al foil and 60% Al braid 9.7Ω/31.8Ω	PE with Floodant .272/6.91	Black .272/6.91 by .730/18.5 wide	16.2	53.1	82%	75Ω	1	0.37	1.21
										10	0.66	2.16
										50	1.41	4.62
										100	1.92	6.30
										200	2.64	8.66
										400	3.73	12.23
										700	5.05	16.56
										900	5.79	18.99
										1000	6.11	20.04
										1200	6.73	22.07
										1450	7.49	24.57
										1800	8.43	27.65
										2200	9.35	30.67
										3000	10.92	35.82









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 = 1000ft. Reel

Broadband Video/Video Distribution, MATV



75Ω Coax Cables, Series 11 (RG 11 Type)








Catalog Number Safety Rating Packaging Options	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Color & Dimensions in / mm.	Nominal Capacitance		Nom Vel. of Prop.	Nom Imp.	Typical Attenuation		
						pF/ft	pF/m			MHz	dB/100'	dB/100m
2285K Plenumax  NEC CMP CEC CMP 	14 AWG Solid CCS 11.0Ω/36.1Ω	Foam FEP .280/7.11	Al foil and 60% Al braid 6.9Ω/22.6Ω	Kynar (PVDF) .020/.51	Cream .351/8.9	16.0	52.5	84%	75Ω	1	0.15	0.49
										10	0.45	1.48
										50	0.90	2.95
										100	1.28	4.20
										200	1.85	6.07
										400	2.75	9.02
										700	3.92	12.86
										900	4.72	15.48
										1000	5.04	16.53
										1450	6.67	20.33
										1800	7.71	23.50
										2200	8.50	27.88
										3000	9.88	32.41
2287K Plenumax  NEC CMP CEC CMP 	14 AWG Solid CCS 11.0Ω/36.1Ω	Foam FEP .280/7.11	Quad shield Al foil, 60% Al braid Al foil and 40% Al braid 3.9Ω/12.8Ω	Kynar (PVDF) .020/.51	Cream .372/9.4	16.0	52.5	84%	75Ω	10	0.45	1.48
										50	0.90	2.95
										100	1.28	4.20
										200	1.85	6.07
										400	2.75	9.02
										700	3.92	12.86
										900	4.72	15.48
										1000	5.04	16.53
										1450	6.67	20.33
										1800	7.71	23.50
										2200	8.50	25.91
										3000	9.88	32.41
2289K Plenumax  NEC CMP CEC CMP 	14 AWG Solid CCS 11.0Ω/36.1Ω	Foam FEP .280/7.11	Quad shield Al foil, 77% Al braid Al foil 3.9Ω/12.8Ω	Kynar (PVDF) .020/.51	Cream .361/9.2	16.0	52.5	84%	75Ω	10	0.45	1.48
										50	0.90	2.95
										100	1.28	4.20
										200	1.85	6.07
										400	2.75	9.02
										700	3.92	12.86
										900	4.72	15.48
										1000	5.04	16.53
										1450	6.67	20.33
										1800	7.71	23.50
										2200	8.50	25.91
										3000	9.88	32.41
2293K Plenumax  NEC CMP CEC C 	14 AWG Solid BC 2.6Ω/8.5Ω	Foam FEP .280/7.22	Al Foil and 95% TC braid 1.7Ω/5.18Ω	Kynar (PVDF) .018/.46	Cream .351/8.92	16.0	52.48	84%	75Ω	1	0.09	0.27
										10	0.45	1.37
										50	0.90	2.72
										100	1.28	3.90
										200	1.85	5.64
										400	2.75	8.38
										700	3.92	11.95
										900	4.72	14.39
										1000	5.04	15.36
										1450	6.42	19.57
										1800	7.22	22.01
										2200	7.79	23.74
										2500	8.30	25.30
										3000	9.22	28.10

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75Ω Coax Cables, Series 11 (RG 11 Type)

Catalog Number Safety Rating	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Color & Dimensions in / mm.	Nominal Capacitance		Nom Vel. of Prop.	Nom Imp.	Typical Attenuation		
						pF/ft	pF/m			MHz	dB/100'	dB/100m
5916  NEC CM CEC CMH 	14 AWG Solid CCS 11.0Ω/36.1Ω	Foam PE .280/7.11	Al foil and 60% Al braid 6.9Ω/22.6Ω	Flame- retardant PVC .045/1.1	Black .395/10.0	16.2	53.1	82%	75Ω	1	0.17	0.56
										10	0.45	1.48
										50	0.89	2.92
										100	1.21	3.97
										200	1.68	5.51
										400	2.37	7.77
										700	3.27	10.73
										900	3.77	12.37
										1000	3.95	12.96
										1200	4.46	13.59
5916R NEC CMR CEC CMR 	5916R is a riser-rated version of 5916 with identical electrical characteristics				Black .395/10.0					1450	5.08	15.48
										1800	5.58	17.01
										2200	6.29	19.17
										3000	7.58	24.86
5917 Burial  	14 AWG Solid CCS 11.0Ω/36.1Ω	Foam PE .280/7.11	Al foil and 60% Al braid 6.9Ω/22.6Ω	PE with Floodant .045/1.1	Black .395/10.0	16.2	53.1	82%	75Ω			
5918  NEC CM CEC CMH 	5918 is a dual cable version of 5916 with identical electrical characteristics				Black .395/10.0 by .820/20.8							

5940 is also available.

Specifications subject to change without notice.




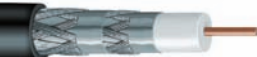
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75Ω Coax Cables, Series 11 (RG 11 Type)



Catalog Number Safety Rating Packaging Options	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Color & Dimensions in / mm.	Nominal Capacitance		Nom Vel. of Prop.	Nom Imp.	Typical Attenuation		
						pF/ft	pF/m			MHz	dB/100'	dB/100m
5901  NEC CM CEC CMH 1000	14 AWG Solid BC 2.6Ω/8.5Ω	Foam PE .280/7.11	Al foil and 60% TC braid 2.9Ω/9.5Ω	Flame- retardant PVC .040/1.02	Black .395/10.0	16.0	52.5	82%	75Ω	1	0.10	0.33
										10	0.45	1.48
										50	0.89	2.92
										100	1.21	3.97
										200	1.68	5.51
										400	2.37	7.77
										700	3.27	10.73
										900	3.77	12.37
										1000	3.95	12.96
										1450	5.08	16.66
										1800	5.58	17.01
										2200	6.29	20.63
										3000	7.58	24.86
5910 w/0.072" Mess. Aerial  Outdoor 1000	14 AWG Solid CCS 14.29Ω/36.1Ω	Foam PE .280/7.11	Al foil and 60% Al braid 6.9Ω/22.6Ω	Flame- retardant PVC .040/1.07	Black .395/10.0 by .572/14.6 wide	16.2	52.5	82%	75Ω	1	0.17	0.56
										10	0.45	1.48
										50	0.89	2.92
										100	1.21	3.97
										200	1.68	5.51
										400	2.37	7.77
										700	3.27	10.73
										900	3.77	12.37
										1000	3.95	12.96
										1450	5.08	15.48
										1800	5.58	17.01
										2000	6.29	19.17
										3000	7.58	24.86
5915  NEC CL2 CATV or CM 1000	14 AWG Solid CCS 11.0Ω/36.1Ω	Foam PE .280/7.11	Al foil and 90% Al braid 4.8Ω/15.7Ω	Flame- retardant PVC .045/1.1	Black .395/10.0	16.0	52.5	82%	75Ω	1	0.17	0.56
										10	0.45	1.48
										50	0.89	2.92
										100	1.21	3.97
										200	1.68	5.51
										400	2.37	7.77
										700	3.27	10.73
										900	3.77	12.37
										1000	3.95	12.96
										1450	5.08	15.48
										1800	5.58	17.01
										2200	6.29	19.17
										3000	7.58	24.86
5940  NEC CM CEC CMH 1000	14 AWG Solid CCS 11.0Ω/36.1Ω	Foam PE .280/7.11	Quad shield Al foil, 60% Al braid, Al foil and 40% Al braid 3.7Ω/12.1Ω	Flame- retardant PVC .035/.89	Black .405/10.3	16.0	52.5	84%	75Ω	1	0.17	0.56
										10	0.45	1.48
										50	0.89	2.92
										100	1.21	3.97
										200	1.68	5.51
										400	2.37	7.77
										700	3.27	10.73
										900	3.77	12.37
										1000	3.95	12.96
										1200	4.46	13.59
										1450	5.08	15.48
										1800	5.58	17.01
										2200	6.29	19.17
										3000	7.58	24.86

Specifications subject to change without notice.

1000 = 1000ft. Reel

Broadband Video/Video Distribution, MATV

75Ω Coax Cables, Series 11 (RG 11 Type)



Catalog Number Safety Rating	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Color & Dimensions in / mm.	Nominal Capacitance		Nom Vel. of Prop.	Nom Imp.	Nominal Attenuation		
						pF/ft	pF/m			MHz	dB/100'	dB/100m
5940R  NEC CMR CEC CMR 	14 AWG Solid CCS 11.0Ω/36.1Ω	Foam PE .280/7.11	Quad shield Al foil, 60% Al braid, Al foil and 40% Al braid 3.7Ω/12.1Ω	Flame- retardant PVC .038/.97	Black .405/10.3	16.0	52.5	84%	75Ω	1	0.17	0.56
										10	0.45	1.48
										50	0.89	2.92
										100	1.21	3.97
										200	1.68	5.51
										400	2.37	7.77
										700	3.27	10.73
										900	3.77	12.37
										1000	3.95	13.59
										1200	5.08	15.48
										1800	5.58	17.01
										2200	6.29	19.17
										3000	7.58	24.86

Specifications subject to change without notice.

Plenumax is a trademark for CommScope plenum products.

Broadband Video/Video Distribution, MATV

75Ω Coax Cable, Trunk

Catalog Number Safety Rating	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Color & Dimensions in / mm.	Nominal Capacitance		Nom Vel. of Prop.	Nom Imp.	Nominal Attenuation		
						pF/ft	pF/m			MHz	dB/100'	dB/100m
2312K Plenum Trunk Plenumax  NEC CMP CEC CMP 	.109/2.76 Solid CCA 1.3Ω/4.26Ω	Foam FEP .450/11.4	Al sheath .40Ω/1.3Ω	PVDF(K) .012/.31	Cream .524/13.3	16.0	52.5	86%	75Ω	1	0.07	0.23
										10	0.23	0.75
										50	0.56	1.84
										100	0.83	2.72
										200	1.25	4.10
										400	1.97	6.46
										700	2.92	9.58
										900	3.47	11.38
										1000	3.78	12.40

Specifications subject to change without notice.





Plenumax is a trademark for CommScope plenum products.

 = 1000ft. Reel

Broadband Video/Video Distribution, MATV



75Ω Coax Cables, Series 59 & Series 6 (1 GHz)









Catalog Number Safety Rating Packaging Options	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Color & Dimensions in / mm.	Nominal Capacitance		Nom Vel. of Prop.	Nom Imp.	Typical Attenuation		
						pF/ft	pF/m			MHz	dB/100'	dB/100m
P6DSCCS  NEC CMP CEC CMP 	18 AWG CCS 28.6Ω/93.8Ω	Foam FEP .170/4.32	Al foil and 60% AL braid 9.0Ω/29.52Ω	Plenum PVC .015/.381	Cream .239/6.1	15.5	51.0	84%	75Ω	1	0.38	1.25
										10	0.70	2.30
										50	1.48	4.85
										100	2.01	6.59
										200	2.86	9.38
										400	4.23	13.87
										700	5.96	19.55
										900	6.96	22.83
										1000	7.45	24.44
P6QSCCS  NEC CMP CEC CMP 	18 AWG CCS 28.6Ω/93.8Ω	Foam FEP .170/4.32	Quad shield Al foil, 60% Al braid, Al foil and 40% Al braid 5.3Ω/17.4Ω	Plenum PVC .016/.41	Cream .260/6.6	15.5	51.0	84%	75Ω	1	0.38	1.25
										10	0.70	2.30
										50	1.48	4.85
										100	2.01	6.59
										200	2.86	9.38
										400	4.23	13.87
										700	5.96	19.55
										900	6.96	22.83
										1000	7.45	24.44

Specifications subject to change without notice.

 = 1000ft. Reel

VSAT Types I, II and III 50Ω



For Non-Plenum Applications

Catalog Number Safety Rating Packaging Options	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Color & Dimensions in / mm.	Nominal Capacitance		Nom Vel. of Prop.	Nom Imp.	Typical Attenuation		
						pF/ft	pF/m			MHz	dB/100'	dB/100m
7725 Type I  Outdoor 	19 AWG Solid BC 8.5Ω/27.9Ω	Solid PE .118/2.99	96% BC braid and 96% BC braid 2.4Ω/7.9Ω	PE .029/.74	Black .212/5.4	30.8	101	66%	50Ω	500	11.0	36.08
										1000	16.2	53.14
										1300	18.5	60.68
										1800	23.0	75.44
7726 Type I  NEC CL2 	19 AWG Solid BC 8.5Ω/27.9Ω	Solid PE .118/2.99	96% BC braid and 96% BC braid 2.4Ω/7.9Ω	PVC .029/.74	Black .212/5.4	30.8	101	66%	50Ω	500	11.0	36.08
										1000	16.2	53.14
										1300	18.5	60.68
										1800	23.0	75.44
3226 Type II  Outdoor 	10 AWG Solid BC .92Ω/3.02Ω	Foam PE .288/7.31	90% BC braid 3.0Ω/9.8Ω	PE .048/1.2	Black .405/10.3	23.5	77.1	84%	50Ω	500	5.00	16.40
										1000	7.25	23.78
										1300	8.10	26.57
										1800	9.65	31.65
3227 Type III  Outdoor 	10 AWG Solid BC .92Ω/3.02Ω	Foam PE .288/7.31	Al foil and 90% TC braid 1.4Ω/4.6Ω	PE .045/1.1	Black .405/10.3	23.5	77.1	84%	50Ω	500	3.00	9.84
										1000	4.25	13.94
										1300	5.10	16.73
										1800	6.05	19.84

Specifications subject to change without notice.

VSAT Types I, II and III 50Ω

For Plenum Applications



Catalog Number Safety Rating Packaging Options	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Color & Dimensions in / mm.	Nominal Capacitance		Nom Vel. of Prop.	Nom Imp.	Typical Attenuation		
						pF/ft	pF/m			MHz	dB/100'	dB/100m
2427K Type III  NEC CMP CEC CMP 	10 AWG Solid BC .92Ω/3.02Ω	Foam FEP .285/7.24	Al foil and 90% TC braid, 2.1Ω/6.4Ω	PVDF .016/.41	Cream .355/9.0	24.0	78.7	84%	50Ω	500	3.80	12.46
										900	5.10	16.73
										1000	5.90	19.35
										1300	7.00	22.96
										1800	8.50	27.88

CommScope manufactures custom products for Hughes Network Systems (HNS)
Specifications subject to change without notice.

 = 1000ft. Reel

Security/CCTV





75Ω Coax Cables, Mini Coax

Catalog Number Safety Rating Packaging Options		Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Color & Dimensions in / mm.	Nominal Capacitance pF/ft pF/m		Nom Vel. of Prop.	Nom Imp.	Typical Attenuation		
											MHz	dB/100'	dB/100m
<div>7534</div> <div></div> <div>NEC CM CEC C</div> <div></div>		25 AWG Solid BC 31.0Ω/94.5Ω	Foam PE .085/2.16	95% BC Braid 4.6Ω/14.02Ω	Flame- retardant PVC .020/.51	Black .146/3.7	16.5 54.1	82%	75Ω	1	0.40	1.21	
										5	0.99	3.02	
										10	1.40	4.27	
										50	3.18	9.69	
										100	4.56	13.90	
7534R		7534R is a CMR rated version of 7534 with identical electrical characteristics											
NEC CMR CEC CMR													

Specifications subject to change without notice.

Security/CCTV

75Ω Coax Cables, Series 59 (RG 59 Type)

Catalog Number Safety Rating Packaging Options	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Color & Dimensions in / mm.	Nominal Capacitance pF/ft pF/m	Nom Vel. of Prop.	Nom Imp.	Typical Attenuation		
									MHz	dB/100'	dB/100m
2037V Plenumax  NEC CMP CEC CMP	20 AWG Solid BC 10.5Ω/34.4Ω	Foam FEP .135/3.43	93% BC Braid 3.6Ω/11.8Ω	CommFlex(V) .016/.41	White .193/4.9	16.0 52.5	84%	75Ω	1	0.30	0.98
									10	0.86	2.82
									50	1.91	6.26
									100	2.78	9.12
									200	4.06	13.32
									400	6.01	19.71
									700	8.47	27.78
									900	9.82	32.21
									1000	10.47	34.34
2039V Plenumax  NEC CMP CEC CMP	20 AWG Solid CCS 47.0Ω/154Ω	Foam FEP .135/3.43	93% BC Braid 3.6Ω/11.8Ω	CommFlex(V) .016/.41	White .193/4.9	16.0 52.5	84%	75Ω	1	0.56	1.84
									10	0.86	2.82
									50	1.91	6.26
									100	2.78	9.12
									200	4.06	13.32
									400	6.01	19.71
									700	8.47	27.78
									900	9.82	32.21
									1000	10.47	34.34
2054K/2054V Plenumax  NEC CMP CEC CMP	20 AWG Solid BC 10.5Ω/34.4Ω and 18 AWG pair (7x26) BC	Foam FEP .135/3.43	93% BC Braid 3.6Ω/11.8Ω	PVDF(K) .015/.38 CommFlex(V) .016/.41	White Cream .189/4.8 by .386/9.8 wide	16.0 52.5	84%	75Ω	1	0.30	0.98
									10	0.86	2.82
									50	1.91	6.26
									100	2.78	9.12
									200	4.06	13.32
									400	6.01	19.71
									700	8.47	27.78
									900	9.82	32.21
									1000	10.47	34.34
5520 Burial  Outdoor	20 AWG Solid BC 10.5Ω/34.4Ω	Foam PE .144/3.66	93% BC Braid 3.9Ω/12.8Ω	PE with floodant .037/.94	Black .242/6.1	16.7 54.8	82%	75Ω	1	0.30	0.98
									10	0.84	2.76
									100	2.71	8.89
									400	5.85	19.19
									700	8.42	27.62
									900	9.83	32.24
									1000	10.20	33.46









Specifications subject to change without notice.

Plenumax is a trademark for CommScope plenum products.

 = 1000ft. Reel

Security/CCTV

75Ω Coax Cables, Series 59 & Series 6 (1 GHz)

Catalog Number Safety Rating Packaging Options	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Color & Dimensions in / mm.	Nominal Capacitance		Nom Vel. of Prop.	Nom Imp.	Typical Attenuation		
						pF/ft	pF/m			MHz	dB/100'	dB/100m
PS59BC  NEC CMP CEC CMP 	20 AWG Solid BC 10.5Ω/34.4Ω	Foam FEP .135/3.43	87% BC braid 4.1Ω/13.45Ω	Plenum PVC .016/.41	White .193/4.9	16.0	52.5	84%	75Ω	1	0.30	0.98
										10	0.86	2.82
										50	1.91	6.26
										100	2.78	9.12
										200	4.06	13.32
										400	6.01	19.71
										700	8.47	27.78
										900	9.82	32.21
										1000	10.47	34.34
PS59BCPP  NEC CMP CEC CMP 	20 AWG Solid BC 10.5Ω/34.4Ω	Foam FEP .135/3.43	87% BC braid 4.1Ω/13.45Ω	Plenum PVC .016/.41	White .193/4.9	16.0	52.5	84%	75Ω	1	0.30	0.98
										10	0.86	2.82
										50	1.91	6.26
										100	2.78	9.12
										200	4.06	13.32
										400	6.01	19.71
										700	8.47	27.78
										900	9.82	32.21
										1000	10.47	34.34
S59BC  NEC CM CEC CM 	20 AWG Solid BC 10.5Ω/34.4Ω	Foam PE .144/3.66	85% BC braid 4.2Ω/13.78Ω	FR PVC .037/.94	Black .242/6.1	16.7	54.8	82%	75Ω	1	0.30	0.98
										10	0.84	2.76
										50	1.88	6.17
										100	2.71	8.89
										200	3.94	12.92
										400	5.85	19.52
										700	8.42	27.62
										900	9.83	32.57
										1000	10.20	33.46
S59BCPP  NEC CM CEC CM 	20 AWG Solid BC 10.5Ω/34.4Ω	Foam PE .144/3.66	85% BC braid 4.2Ω/13.78Ω	FR PVC .037/.94	Black .242/6.1	16.7	54.8	82%	75Ω	1	0.30	0.98
										10	0.84	2.76
										50	1.88	6.17
										100	2.71	8.89
										200	3.94	12.92
										400	5.85	19.52
										700	8.42	27.62
										900	9.83	32.57
										1000	10.20	33.46








Specifications subject to change without notice.

 = 1000ft. Reel

Security/CCTV



75Ω Coax Cables, Series 59 (RG 59 Type)







Catalog Number Safety Rating Packaging Options	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Color & Dimensions in / mm.	Nominal Capacitance		Nom Vel. of Prop.	Nom Imp.	Typical Attenuation		
						pF/ft	pF/m			MHz	dB/100'	dB/100m
5553  NEC CM CEC CMH 	20 AWG Solid BC 10.5Ω/34.4Ω	Foam PE .144/3.66	93% BC Braid 3.9Ω/12.8Ω	Flame- retardant PVC .037/.94	Black, White Gray .242/6.1	16.7	54.8	82%	75Ω	1	0.30	0.98
										10	0.84	2.76
										100	2.71	8.89
										400	5.85	19.19
										700	8.42	27.62
5553G NEC CM CEC CMG 	5553G is a CMG rated dual cable version of 5553 with identical electrical characteristics				Black, White Gray .242/6.1	16.7	54.8	82%	75Ω	900	9.83	32.24
										1000	10.20	33.46
5554  NEC CM CEC CMH 	20 AWG Solid BC 10.5Ω/34.4Ω and 18 AWG Pair (7x26) BC	Foam PE .144/3.66	93% BC Braid 3.9Ω/12.8Ω	Flame- retardant PVC .037/.94	Black .242/6.1 by .484/12.3 wide	16.7	54.8	82%	75Ω	1	0.30	0.98
										10	0.84	2.76
										100	2.71	8.89
										400	5.85	19.19
										700	8.42	27.62
5554M w/0.051" Mess.  NEC CM CEC CMH 	20 AWG Solid BC 10.5Ω/34.4Ω and 18 AWG Pair (7x26) BC	Foam PE .144/3.66	93% BC Braid 3.9Ω/12.8Ω	Flame- retardant PVC .037/.94	Black .242/6.1 by .484/12.3 wide	16.7	54.8	82%	75Ω	900	9.83	32.24
										1000	10.20	33.46

Specifications subject to change without notice.

Plenumax is a trademark for CommScope plenum products.

Security/CCTV

75Ω Coax Cables, Series 6 (RG 6 Type)






Catalog Number Safety Rating Packaging Options	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Color & Dimensions in / mm.	Nominal Capacitance		Nom Vel. of Prop.	Nom Imp.	Typical Attenuation		
						pF/ft	pF/m			MHz	dB/100'	dB/100m
2254V  NEC CMP CEC CMP 	18 AWG Solid BC 6.5Ω/21.2Ω and 18 AWG pair (7x26) BC	Foam FEP .170/4.32	92% BC Braid 4.4Ω/14.4Ω	CommFlex(V) .018/.46	White .226/5.7	16.0	52.5	84%	75Ω	1	0.21	0.69
										10	0.65	2.13
										100	2.04	6.69
										400	4.46	14.63
										700	5.89	19.32
2277V/2277K Plenumax  NEC CMP CEC CMP 	18 AWG Solid BC 6.5Ω/21.2Ω	Foam FEP .170/4.32	92% BC Braid 4.4Ω/14.4Ω	CommFlex(V) .016/.41 PVDF .018/.46	White .226/5.7	16.0	52.5	84%	75Ω	900	7.47	24.50
										1000	8.02	26.31
5654  NEC CM CEC CMG 	18 AWG Solid BC 6.5Ω/21.2Ω and 18 AWG pair (7x26) BC	Foam PE .180/4.57	92% BC Braid 3.0Ω/9.9Ω	Flame- retardant PVC .033/.84	Black .272/6.9 by .514/13.1 wide	16.2	53.2	82%	75Ω	1	0.19	0.62
										10	0.65	2.14
										100	2.16	7.09
										400	4.55	14.93
										700	6.23	20.43
										900	7.23	23.71
										1000	7.75	25.42

Specifications subject to change without notice.

 = 1000ft. Reel = ComPak

Security/CCTV

75Ω Coax Cables, Series 6 (RG 6 Type)







Catalog Number Safety Rating Packaging Options	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Color & Dimensions in / mm.	Nominal Capacitance		Nom Vel. of Prop.	Nom Imp.	Typical Attenuation		
						pF/ft	pF/m			MHz	dB/100'	dB/100m
5700  NEC CM CEC CMH  	18 AWG Solid BC 6.5Ω/21.2Ω	Foam PE .180/4.57	92% BC Braid 3.0Ω/9.9Ω	Flame- retardant PVC .033/.84	Black .272/6.9	16.2	53.2	82%	75Ω	1	0.19	0.62
										10	0.65	2.14
										100	2.16	7.09
										400	4.55	14.93
										700	6.23	20.43
										900	7.23	23.71
										1000	7.75	25.42
5720 Burial  Outdoor 	18 AWG Solid BC 6.5Ω/21.2Ω	Foam PE .180/4.57	92% BC Braid 3.0Ω/9.9Ω	PE with floodant .033/.84	Black .272/6.9	16.2	53.2	82%	75Ω	1	0.19	0.62
										10	0.65	2.14
										100	2.16	7.09
										400	4.55	14.93
										700	6.23	20.43
										900	7.23	23.71
										1000	7.75	25.42

Specifications subject to change without notice.

Plenumax is a trademark for CommScope plenum products.

Security/CCTV

75Ω Coax Cables, Series 11 (RG 11 Type)

Catalog Number Safety Rating Packaging Options	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Color & Dimensions in / mm.	Nominal Capacitance		Nom Vel. of Prop.	Nom Imp.	Typical Attenuation		
						pF/ft	pF/m			MHz	dB/100'	dB/100m
2286K  NEC CMP CEC CMP 	14 AWG Solid BC 2.6Ω/8.5Ω	Foam FEP .280/7.11	95% BC Braid 2.5Ω/8.2Ω	PVDF(K) .020/.51	Cream .347/8.7	16.0	52.5	82%	75Ω	1	0.09	0.27
										10	0.43	1.41
										100	1.48	4.85
										400	3.24	9.72
										700	4.67	14.01
										900	5.46	16.38
										1000	5.83	17.49
5904  NEC CM CEC CMH 	14 AWG Solid BC 2.6Ω/8.5Ω	Foam PE .285/7.2	93% BC Braid 2.5Ω/8.2Ω	Flame- retardant PVC .045/1.14	Black .395/10.0	16.0	52.5	82%	75Ω	1	0.10	0.33
										10	0.46	1.51
										100	1.45	4.76
										400	2.78	9.12
										700	4.06	13.32
										900	4.66	15.29
										1000	4.82	15.81
5920  Burial 	14 AWG Solid BC 2.6Ω/8.5Ω	Foam PE .285/7.2	93% BC Braid 2.5Ω/8.2Ω	PE with floodant .045/1.14	Black .395/10.0	16.0	52.5	82%	75Ω	1	0.10	0.33
										10	0.46	1.51
										50	0.93	3.05
										100	1.45	4.76
										200	1.83	6.01
										400	2.78	9.12
										700	4.06	13.32
										900	4.66	15.29
										1000	4.82	15.81



Specifications subject to change without notice.

Plenumax is a trademark for CommScope plenum products.

MAP Manufacturing Automation Protocol





75Ω Coax Cables, Series 6 (RG 6 Type)

Catalog Number Safety Rating Packaging Options	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Color & Dimensions in / mm.	Nominal Capacitance		Nom Vel. of Prop.	Nom Imp.	Typical Attenuation		
						pF/ft	pF/m			MHz	dB/100'	dB/100m
5750  NEC CMR CEC CMR 	18 AWG Solid CCS 28.6Ω/93.8Ω	Foam PE .180/4.57	Quad shield Al Foil, 60% Al Braid, Al Foil and 40% Al Braid 4.9Ω/16.1Ω	Flame- retardant PVC .034/.86	Black .300/7.62	16.2	53.1	82%	75Ω	1	0.37	1.21
										10	0.66	2.16
										50	1.41	4.62
										100	1.92	6.30
										200	2.64	8.66
										400	3.73	12.23
										700	5.05	16.56
										900	5.79	18.99
										1000	6.11	20.04
										1200	6.73	22.07
										1450	7.49	24.57
										1800	8.43	27.65
										2200	9.35	30.67
										3000	10.92	35.82

Specifications subject to change without notice.

MAP Manufacturing Automation Protocol



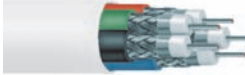
75Ω Coax Cables, Series 11 (RG 11 Type)

Catalog Number Safety Rating Packaging Options	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Color & Dimensions in / mm.	Nominal Capacitance		Nom Vel. of Prop.	Nom Imp.	Typical Attenuation		
						pF/ft	pF/m			MHz	dB/100'	dB/100m
5950  NEC CMR CEC CMR 	14 AWG Solid CCS 11.0Ω/36.1Ω	Foam PE .280/7.11	Quad shield Al foil, 40% Al braid, Al foil and 60% Al braid 3.7Ω/12.1Ω	Flame- retardant PVC .035/.89	Black .405/10.3	16.0	52.5	82%	75Ω	1	0.17	0.56
										10	0.45	1.48
										50	0.89	2.92
										100	1.21	3.97
										200	1.68	5.51
										400	2.37	7.77
										700	3.27	10.73
										900	3.77	12.37
										1000	3.95	12.96
										1450	5.08	15.48
										2200	6.29	19.14
										3000	7.58	24.86

Specifications subject to change without notice.

Broadcast



75Ω High Performance RGB, Miniature Low Loss

Catalog Number Safety Rating Packaging Options	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Color & Dimensions in / mm.	Nominal Capacitance pF/ft pF/m	Nom Vel. of Prop.	Nom Imp.	Typical Attenuation		
									MHz	dB/100'	dB/100m
2035  NEC CMP CEC CMP 1000	26 AWG SC 38.6Ω/126.6Ω	Foam FEP .077/1.96	Al foil and 93% TC braid 6.0Ω/19.7Ω	Kynar .013/.330	Black .127/3.2	17.0 55.8	80%	75Ω	1	0.51	1.67
									3.6	0.97	4.25
									10	1.44	4.72
									71.5	4.02	13.19
									135	5.53	18.14
203503 RGBSC  NEC CMP CEC CMP 1000	(3) Three 26 AWG SC 38.6Ω/126.6Ω	Foam FEP .077/1.96	Al foil and 93% TC braid 6.0Ω/19.7Ω	PVDF .013/.330	White .298/7.6	17.0 55.8	80%	75Ω	1	0.51	1.67
									3.6	0.97	4.25
									10	1.44	4.72
									71.5	4.02	13.19
									135	5.53	18.14
203505 RGBSC  NEC CMP CEC CMP 1000	(5) Five 26 AWG SC 38.6Ω/126.6Ω	Foam FEP .077/1.96	Al foil and 93% TC braid 6.0Ω/19.7Ω	PVDF .013/.330	White .378/9.6	17.0 55.8	80%	75Ω	1	0.51	1.67
									3.6	0.97	4.25
									10	1.44	4.72
									71.5	4.02	13.19
									135	5.53	18.14

Specifications subject to change without notice.

Broadcast

4 Twisted Pair RGB Video Cable





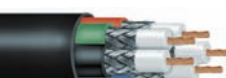







Catalog Number Safety Rating Packaging Option	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Jacket OD and colors in / mm.	Nominal Capacitance pF/ft	Input Impedance	Maximum DCR	Velocity of Propagation	Shipping Wt. in lbs. kft / km
RGB-23V  NEC/ CEC CMP	4	23 AWG Solid BC	FEP (Teflon) .008/.20	CommFlex Flame- retardant PVC .019/.48	.170/5.6 White, blue, yellow, pink and gray*	14	100Ω ± 15Ω	26Ω/kft	71%	22/71.7
RGB-23R  NEC/CEC CMR/CMG	4	23 AWG Solid BC	PE .009/.22	PVC .022/.55	.190/5.6 White, blue, yellow, pink and gray*	14	100Ω ± 15Ω	26Ω/kft	68%	23/75.4

1000 = 1000ft. Reel

Broadcast







75Ω High Performance RGB, Miniature Low Loss

Catalog Number Safety Rating Packaging Options	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Color & Dimensions in / mm.	Nominal Capacitance		Nom Vel. of Prop.	Nom Imp.	Typical Attenuation		
						pF/ft	pF/m			MHz	dB/100'	dB/100m
<div>7536</div> <div>RGB</div> <div></div> <div>NEC CMR CEC CMR</div> <div></div>	25 AWG Stranded BC (7x0.007") 30Ω/98.4Ω	Foam PE .099/2.51	93% TC braid 6.0Ω/19.7Ω	Flame- retardant PVC .016/.41	Black .150/3.81	17.3	56.8	78%	75Ω	1	0.41	1.34
										5	0.98	3.21
										50	3.20	10.50
										100	4.60	15.09
										200	6.44	21.12
										400	9.18	26.08
										700	12.14	30.11
										900	13.77	45.17
										1000	14.51	47.59
										<div>753603</div> <div>RGB</div> <div></div> <div>NEC CMR CEC CMR</div> <div></div>	(3) Three 25 AWG Stranded BC (7x0.007") 30Ω/98.4Ω	Foam PE .099/2.51
5	0.98	3.21										
50	3.20	10.50										
100	4.60	15.09										
200	6.44	21.12										
400	9.18	26.08										
700	12.14	30.11										
900	13.77	45.17										
1000	14.51	47.59										
<div>753605</div> <div>RGBSC</div> <div></div> <div>NEC CMR CEC CMR</div> <div></div>	(5) Five 25 AWG Stranded BC (7x0.007") 30Ω/98.4Ω	Foam PE .099/2.51	93% TC braid 6.0Ω/19.7Ω	Flame- retardant PVC .016/.41 Bundle jacket is TPE .054/1.4	Black .530/13.5 Component 7536 cables are red, green, blue, black and white	17.3	56.8	78%	75Ω			
										5	0.98	3.21
										50	3.20	10.50
										100	4.60	15.09
										200	6.44	21.12
										400	9.18	26.08
										700	12.14	30.11
										900	13.77	45.17
										1000	14.51	47.59
										<div>7538B</div> <div>Miniature Low-loss</div> <div></div> <div>NEC CM CEC CMG</div> <div></div>	23 AWG Solid BC 20.3Ω/66.6Ω	Foam PE .100/2.51
3.6	0.77	2.52										
10	1.29	4.23										
71.5	3.04	9.97										
135	4.18	13.71										
270	5.92	19.42										
360	6.70	21.98										
720	9.47	31.06										
1000	11.16	36.60										
2000	15.78	51.76										
<div>753803B</div> <div>Miniature Low-loss</div> <div></div> <div>NEC CM CEC CMR</div> <div></div>	(3) Three 23 AWG Solid BC 20.3Ω/66.6Ω	Foam PE .100/2.51	Al foil and 95% TC braid 4.0Ω/13.1Ω	Flame- retardant PVC .054/1.37	Black .415/10.5	16.5	54.1	84%	75Ω	1	0.38	1.24
										3.6	0.77	2.52
										10	1.29	4.23
										71.5	3.04	9.97
										135	4.18	13.71
										270	5.92	19.42
										360	6.70	21.98
										720	9.47	31.06
										1000	11.16	36.60
										2000	15.78	51.76
<div>753805B</div> <div>Miniature Low-loss</div> <div></div> <div>NEC CM CEC CMR</div> <div></div>	(5) Five 23 AWG Solid BC 20.3Ω/66.6Ω	Foam PE .100/2.51	Al foil and 95% TC braid 4.0Ω/13.1Ω	Flame- retardant PVC .054/1.37	Black .540/13.7	16.5	54.1	84%	75Ω	1	0.38	1.24
										3.6	0.77	2.52
										10	1.29	4.23
										71.5	3.04	9.97
										135	4.18	13.71
										270	5.92	19.42
										360	6.70	21.98
										720	9.47	31.06
										1000	11.16	36.60
										2000	15.78	51.76

Broadcast







75Ω Coax Cables, Precision Digital Video

Catalog Number Safety Rating Packaging Options	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Color & Dimensions in / mm.	Nominal Capacitance		Nom Vel. of Prop.	Nom Imp.	Typical Attenuation		
						pF/ft	pF/m			MHz	dB/100'	dB/100m
7501  	20 AWG Solid BC 11Ω/36.1Ω	Solid PE .198/5.03	98% TC braid and 95% TC braid 1.1Ω/3.5Ω	PE .025/.64	Black .304/7.7	21.0	68.7	66%	75Ω	1	0.28	0.92
										10	0.78	2.56
										50	1.91	6.26
										100	2.70	8.86
										200	3.82	12.53
										400	5.40	17.71
										700	7.14	23.42
										900	8.10	26.57
										1000	8.54	28.01
7505  	20 AWG Solid BC 11Ω/36.1Ω	Solid Flame- retardant PE .200/5.08	Al Foil and 96% TC braid 1.1Ω/3.5Ω	PVC .035/.89	Black .305/7.7	21.0	68.7	66%	75Ω	1	0.28	0.92
										10	0.85	2.79
										50	1.76	5.77
										100	2.41	7.90
										200	3.42	11.22
										400	5.03	16.50
										700	6.79	22.27
										900	7.71	25.29
										1000	8.32	27.29
NEC CEC	CMR CMR											

Specifications subject to change without notice.

Broadcast

75Ω Coax Cables, HDTV Video

Catalog Number Safety Rating	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Color & Dimensions in / mm.	Nominal Capacitance		Nom Vel. of Prop.	Nom Imp.	Typical Attenuation												
						pF/ft	pF/m			MHz	dB/100'	dB/100m										
2065V Plenumax  NEC CEC CMP CMP 	20 AWG Solid BC 10.5Ω/34.4Ω	Foam FEP .135/3.43	Al foil and 96% TC braid 3.2Ω/10.5Ω	CommFlex(M) .016/.41	White .207/5.3	16.1	53.0	84%	75Ω	1	0.30	0.98										
										3.6	0.54	1.77										
										10	0.88	2.89										
										71.5	2.16	7.08										
										135	2.90	9.51										
										270	4.16	13.64										
										360	4.98	16.33										
										720	7.61	24.96										
										1000	9.31	30.54										
										1450	11.70	38.38										
										1800	13.27	43.53										
										3000	18.24	59.83										
										2279V Plenumax  NEC CEC CMP CMP 	18 AWG Solid BC 6.5Ω/21.2Ω	Foam FEP .170/4.32	Al foil and 95% TC braid 2.8Ω/9.3Ω	CommFlex(M) .015/.41	White .237/6.0	15.8	51.9	84%	75Ω	1	0.26	0.85
																				3.6	0.47	1.54
																				10	0.70	2.30
71.5	1.65	5.41																				
135	2.39	7.84																				
270	3.40	11.15																				
360	4.08	13.38																				
720	6.05	19.84																				
1000	7.45	24.44																				
1450	3.61	28.24																				
1800	9.73	31.91																				
3000	13.07	42.87																				
5906  NEC CEC CMR CMR 	14 AWG Solid BC 2.6Ω/8.5Ω	Foam PE .285/7.24	Al Foil and 95% TC braid 2.1Ω/6.88Ω	Flame- retardant PVC .045/1.14	Black* .395/10.0	16.0	52.48	82%	75Ω											1	0.10	0.33
																				10	0.45	1.48
																				50	0.89	2.92
										100	1.21	3.97										
										200	1.68	5.51										
										400	2.37	7.77										
										700	3.27	10.73										
										900	3.77	12.37										
										1000	3.95	12.96										
										1200	4.46	13.59										
										1450	5.08	15.48										
										1800	5.58	17.01										
										2200	6.29	19.17										
										3000	7.60	24.86										

Specifications subject to change without notice.







Plenumax is a trademark for CommScope plenum products

 = 1000ft. Reel

Broadcast



75Ω Coax Cables, HDTV Video









Catalog Number Safety Rating Packaging Options	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Color & Dimensions in / mm.	Nominal Capacitance		Nom Vel. of Prop.	Nom Imp.	Typical Attenuation		
						pF/ft	pF/m			MHz	dB/100'	dB/100m
5514  NEC CEC 	20 AWG Solid BC 10.5Ω/34.4Ω	Foam PE .144/3.66	Al foil and 95% TC braid 3.0Ω/9.14Ω	Flame- retardant PVC .032/.81	Clear .236/6.0	16.2	53.1	82%	75Ω	1	0.31	1.03
										3.6	0.56	1.85
										10	0.90	2.95
										71.5	2.13	6.97
										135	2.81	9.23
										270	3.88	12.71
										360	4.56	14.97
										720	6.63	21.73
										1000	7.75	25.42
										2000	11.90	39.03
										3000	14.90	48.87
5565  NEC CMR CEC CMR 	20 AWG Solid BC 10.5Ω/34.4Ω	Foam PE .144/3.66	Al foil and 90% TC braid 2.8Ω/9.18Ω	Flame- retardant PVC .032/.81	Black .242/6.1	16.7	54.8	82%	75Ω	1	0.31	1.03
										3.6	0.56	1.85
										10	0.90	2.95
										71.5	2.13	6.97
										135	2.81	9.23
										270	3.88	12.71
										360	4.56	14.97
										720	6.63	21.73
										1000	7.75	25.42
										2000	11.90	39.03
										3000	14.90	48.87
5765  NEC CMR CEC CMR 	18 AWG Solid BC 6.5Ω/21.2Ω	Foam PE .180/4.57	Al foil and 95% TC braid 2.0Ω/6.6Ω	Flame- retardant PVC .032/.81	Black .272/6.9	16.2	53.1	82%	75Ω	1	0.25	0.82
										3.6	0.45	1.48
										10	0.72	2.36
										71.5	1.70	5.58
										135	2.25	7.38
										270	3.10	10.17
										360	3.65	11.97
										720	5.30	17.38
										1000	6.20	20.34
										1500	8.00	24.38
										2000	9.40	28.65
										2500	10.55	32.16
										3000	11.60	35.36

Specifications subject to change without notice.

 = 1000ft. Reel

Data Applications

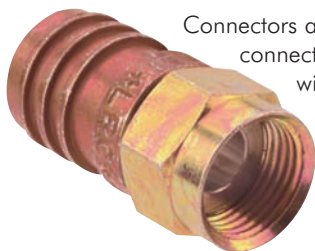
50Ω Coax Cables, RG58 Type

Catalog Number Safety Rating Packaging Options	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Color & Dimensions in / mm.	Nominal Capacitance		Nom Vel. of Prop.	Nom Imp.	Typical Attenuation		
						pF/ft	pF/m			MHz	dB/100'	dB/100m
2110V Plenumax  NEC CMP CEC CMP 	19 AWG Solid BC 7.6Ω/24.9Ω	Foamed FEP .110/2.80	Al foil and 90% TC braid 4.9Ω/16.1Ω	CommFlex(V) .016/.40	White .178/4.5	26.6	87.2	78%	50Ω	30	2.05	6.72
										50	2.58	8.46
										150	4.34	14.23
										450	8.00	26.24
										900	12.50	41.00
										1800	19.60	64.28
										2500	23.60	77.40
3104  NEC CMG CEC CMG 	20 AWG Stranded TC (19x32) 10.15Ω/37.7Ω	Foam FRPE .101/2.57	Al foil and 93% TC braid 4.2Ω/13.9Ω	Flame- retardant PVC .026/.66	White .183/4.6	25.0	82.0	78%	50Ω	5	0.99	3.24
										10	1.40	4.20
										50	2.90	9.51
										100	4.20	13.78
										200	6.10	20.00
										400	8.90	29.19
										700	12.10	39.69
										900	13.90	45.59
										1000	14.80	48.54
3130 IEEE 802.3 Thinnet  NEC CM CEC CMH 	20 AWG Solid BC 10.5Ω/34.4Ω	Solid PE .116/2.95	95% TC braid 4.1Ω/13.5Ω	Flame- retardant PVC .030/.76	Black .200/5.1	28.5	93.5	66%	53Ω	1	0.44	1.44
										10	1.42	4.67
										50	3.10	10.17
										100	4.50	14.76
										200	6.80	22.31
										400	10.00	32.81
										700	14.00	45.93
										900	16.00	52.50
										1000	17.00	55.78
3135 IEEE 802.3 Thinnet  NEC CM CEC CMH 	21 AWG Stranded TC (19x33) 10Ω/32.8Ω	Solid PE .116/2.95	95% TC braid 4.1Ω/13.5Ω	Flame- retardant PVC .030/.76	Black .195/4.9	30.5	100.0	66%	50Ω	1	0.64	2.11
										10	1.55	5.08
										50	4.54	14.91
										100	4.90	16.08
										200	9.09	29.81
										400	11.50	37.73
										700	17.00	55.73
										900	20.00	65.62
										1000	21.50	70.54

Specifications subject to change without notice.

Plenumax is a trademark for CommScope plenum products.

Connectors



Connectors are manufactured to fit each series and size of coaxial cable. CommScope does not stock or sell connectors. Customers may use the information below to assist in locating and obtaining connectors for use with our coaxial cable. By providing this list, CommScope neither endorses nor represents the following manufacturers' products.

Connector Manufacturers

AMP
P.O. Box 3608
Harrisburg, PA 17105-3608
Phone: 800-522-6752
Fax: 717-986-7575

Holland Electronics
2935 Golf Course Dr.
Ventura, CA 93003
Phone: 800-628-4511
Fax: 805-339-0230

Amphenol Corporation
One Kennedy Drive
Danbury, CT 06810
Phone: 203-743-9272
Fax: 203-796-2032

Thomas & Betts, LRC Connectors
Cable Communications Division
8155 T&B Boulevard
Memphis, TN 38125
Phone: 800-920-0328

Gilbert Engineering
5310 W. Camelback Rd.
Glendale, AZ 85301
Phone: 800-528-5567
Fax: 800-344-6358

Trompeter
31186 La Baya Dr.
Westlake Village, CA 91362-4047
Phone: 800-982-2629
Fax: 818-706-1040

Uniprise

Copper

Fiber

Coax

Multi-Conductor

Conduit

Packaging

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C O A X

Coax

Industrial

Industrial Coax

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An Approved Supplier - And Customer



Your decision to purchase equipment for your facility clearly demonstrates your company's commitment to manufacturing excellence. As one of the largest manufacturers of wire and cable in the world, we applaud your goal of achieving optimal performance.

AMERICAS PARTNER

We at CommScope continually face this same goal of optimizing our manufacturing efficiencies via the right balance of cost, throughput, quality and flexibility to remain competitive in the global marketplace.



CommScope employs a vast network of programmable logic controllers (PLCs) and statistical process controls (SPCs) that work in tandem to measure and maintain a consistent, quality product. Our proprietary testing systems, including electrical sweep testing, assure that the cable you get from CommScope performs to manufacturers' specified levels of performance. We are an ISO-9001 certified manufacturer.

CommScope is a member of Rockwell Automation's Encompass Program, ControlNet International, and the Open DeviceNet Vendor's Association (ODVA). These relationships assure that the cables we have designed will work for your systems now and in the future.



This catalog represents CommScope's continued commitment to providing you - the customer - with one of the broadest selections of cables for your specific application. We hope this catalog will serve as a key reference tool as you move toward manufacturing excellence. Again, congratulations on your purchase and thank you in advance for selecting CommScope as your cable supplier.

Industrial Cable Usage

CommScope Industrial cables are designed to deliver optimum transmission and mechanical performance under real-world conditions. CommScope does recommend that the cable be installed correctly when dealing with electromagnetic interference (EMI), oils and chemicals, excessive heat and physical movement, vibration and physical damage. Excessive cable tension during installation may damage the conductors, shielding, or jacket. Minimum bend radius for the cable should not exceed 10 times the cable OD (Outer Diameter) for copper cables and 20 times the cable OD for fiber cables. In an open ceiling installation, the cable should be supported every 3 to 5 feet. It is best to vary the support distance. Avoid installations where the cable will be crushed. Avoid excessive weight on cables installed in tray. When installing cable in conduit, the conduit must be properly bonded to ground (Refer to the appropriate section of the National Electric Code). The cable must meet the listing requirements of the NEC.

Install CommScope Shielded Industrial cable with the same regard for AC power lines and other sources of RF and EMI as you would any other shielded cable solution. It is important to protect the cable from physical damage. The shield must not be exposed over the cable length. Avoiding sharp surfaces is a must. Do not exceed the minimum bend radius of the cable during installation.

CommScope all dielectric fiber cable may be installed without regard to Electromagnetic Interference. Proper cable installation techniques must be applied. Do not exceed the cable's short-term tensile load. Do not exceed the minimum bend radius for the cable. Avoid excessive crush along with other physically damaging conditions.



CommScope Blue Highway™ DH™, DH+™ Data Highway Plus™ Remote I/O







For General, Riser, Plenum, Burial and Special Applications

Twinaxial cables specifically engineered for DH™, DH+™ and Remote I/O™ systems
Available in a variety of configurations to meet your specific application
Cable-in-conduit (CIC) versions are available



Approved by Allen-Bradley as
Encompass Program Products

Catalog Number Safety Rating Packaging Option	Conductors Size & Type Nom DCR kft / km	Insulation Type & Color Conductor OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Color & Type Cable OD in / mm	Nominal Capacitance		Nom Vel. of Prop.	Nom Imp.	Typical Attenuation		
					pF/ft	pF/m			MHz	dB/100'	dB/100m
9022 Blue Highway general purpose  NEC/CEC CMG 	20 AWG (7x28 AWG) Tinned copper 9.5Ω/31.2Ω Drain wire: 7x28 AWG Tinned copper	PE Clear/blue .078/1.98	Al foil and 57% TC braid 4.1Ω/13.4Ω	Blue PVC .242/6.15	19.7	64.6	66%	78Ω	1	0.77	2.54
									10	1.76	5.80
									50	3.81	12.50
									100	5.56	18.26
									200	8.69	28.53
									400	12.58	41.28
9024 limited distance and special applications  NEC/CEC CM 	24 AWG (7x32 AWG) Tinned Copper 24.6Ω/80.6Ω Drain wire: 7x32 AWG Tinned Copper	PE Clear/Blue .052/1.32	Al foil and 57% TC braid 6.65Ω/21.8Ω	Gray PVC .200/5.08	19.7	64.6	66%	78Ω	1	0.93	3.05
									10	3.09	10.14
									50	6.43	21.09
									100	10.65	34.93
									200	11.65	38.21
									400	11.97	39.26

Unless specified, blue is the standard outer jacket color. Other colors subject to minimum order of 48,000 ft.



CommScope Blue Highway™ DH™, DH+™ Data Highway Plus™ Remote I/O

For Physically Demanding Applications

Twinaxial cables specifically engineered for DH™, DH+™ and Remote I/O™ systems
Armored, hi-flex and messengered constructions
Cable-in-conduit (CIC) versions are available



Approved by Allen-Bradley as
Encompass Program Products

Catalog Number Safety Rating Packaging Option	Conductors Size & Type Nom DCR kft / km	Insulation Type & Color Conductor OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Color & Type Cable OD in / mm	Nominal Capacitance		Nom Vel. of Prop.	Nom Imp.	Typical Attenuation		
					pF/ft	pF/m			MHz	dB/100'	dB/100m
9022AI interlocked aluminum armor  NEC/CEC CMG 	20 AWG (7x28 AWG) Tinned copper 9.5Ω/31.2Ω Drain wire: 7x28 AWG Tinned copper	PE Clear/blue .078/1.98	Al foil and 57% TC braid 4.1Ω/13.4Ω Protective Armor: Interlocked aluminum	Inner: Blue PVC .242/6.15 Outer: Blue PVC .597/15.2	19.7	64.6	66%	78Ω	1	0.77	2.54
									10	1.76	5.80
									50	3.81	12.50
									100	5.56	18.26
									200	8.69	28.53
									400	12.58	41.28

Unless specified, blue is the standard outer jacket color. Other colors subject to minimum order of 48,000 ft.

 = 1000ft. Reel

ControlNet™








For General, Riser, Plenum, Burial and Special Applications

Quad-shielded RG6-styled cables engineered for ControlNet systems
Meets ControlNet International specifications
Available in a variety of configurations to meet your specific application
Cable-in-conduit (CIC) versions are available



Approved by Allen-Bradley as
Encompass Program Products

Catalog Number Safety Rating Packaging Option	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Color & OD in / mm.	Nominal Capacitance		Nom Vel. of Prop.	Nom Imp.	Typical Attenuation		
						pF/ft	pF/m			MHz	dB/100'	dB/100m
5060 general purpose  NEC/CEC CMG 	18 AWG Copper-covered steel 28.6Ω/93.8Ω	Foam PE .180/4.57	Al foil, 60% Al braid, Al foil and 40% Al braid 3.9Ω/12.8Ω	Flame- retardant PVC .034/.864	Black .300/7.62	16.0	52.5	82%	75Ω	1	0.36	1.18
										2	0.38	1.25
										5	0.45	1.48
										10	0.59	1.94
										20	0.86	2.82
										50	1.38	4.53
5060B direct burial  1000	18 AWG Copper-covered steel 28.6Ω/93.8Ω	Foam PE .180/4.57	Al foil, 60% Al braid, Al foil and 40% Al braid 3.9Ω/12.8Ω	PE .032/.813 floodant	Black .297/7.54	16.0	52.5	82%	75Ω	1	0.36	1.18
										2	0.38	1.25
										5	0.45	1.48
										10	0.59	1.94
										20	0.86	2.82
										50	1.38	4.53
5065 limited distance special applications  NEC/CEC CMR 	24 AWG Solid Copper 26.3Ω/86.3Ω	Foam PE .095/2.41	95% TC braid and 95% TC braid 3.2Ω/10.5Ω	PVC .013/.33	Lt. Gray .155/54.1	16.0	52.5	82%	75Ω	1	0.37	1.21
										5	0.88	2.89
										10	1.26	4.13
										25	1.95	6.40
										50	2.98	9.78
										100	4.24	12.92

Other colors subject to minimum order of 48,000 ft.





ControlNet™

For Physically Demanding Applications

Quad-shielded RG6-styled cables engineered for ControlNet systems
Meets ControlNet International Specifications
Armored, burial and flexible constructions
Cable-in-conduit (CIC) versions are available



Approved by Allen-Bradley as
Encompass Program Products

Catalog Number Safety Rating Packaging Option	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Color & OD in / mm.	Nominal Capacitance		Nom Vel. of Prop.	Nom Imp.	Typical Attenuation		
						pF/ft	pF/m			MHz	dB/100'	dB/100m
5060AI interlocked aluminum armor  NEC/CEC CMG 	18 AWG Copper-covered steel 28.6Ω/93.8Ω	Foam PE .180/4.57	Al foil, 60% Al braid, Al foil and 40% Al braid 3.9Ω/12.8Ω Protective Armor: Interlocked Al	Inner: Black PVC .034/.864 Outer: Blue PVC jacket/armor .153/3.87	Blue armored OD .605/15.4 connector OD .300/7.62	16.0	52.5	82%	75Ω	1	0.36	1.18
										2	0.38	1.25
										5	0.45	1.48
										10	0.59	1.94
										20	0.86	2.82
										50	1.38	4.53
5060F hi-flex  NEC/CEC CMG 	20 AWG Stranded (7x15/40 AWG) bare copper 10.2Ω/33.5Ω	Foam PE .180/4.57	Al foil, 60% Al braid, Al foil and 40% Al braid 3.9Ω/12.8Ω	PVC .034/.864	Black .300/7.62	16.0	52.5	82%	75Ω	1	0.21	0.69
										2	0.34	1.11
										5	0.81	2.66
										10	1.35	4.43
										20	1.98	6.49
										50	3.26	10.69

Other colors subject to minimum order of 48,000 ft.

 = 1000ft. Reel





ODVA™ DeviceNet™

For Trunk and Drop Applications

Shielded data/power pairs engineered specifically for DeviceNet
Meets Open DeviceNet Vendors Association (ODVA) specifications
Cable-in-conduit (CIC) versions are available



Approved by Allen-Bradley as
Encompass Program Products





Catalog Number Safety Rating Packaging Option	Conductors Size & Type Nom DCR kft / km	Insulation Type & Color Conductor OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Color & Type Cable OD in / mm	Nominal Capacitance pF/ft pF/m	Nom Vel. of Prop.	Nom Imp.	Typical Attenuation MHz dB/100' dB/100m		
5070 trunk cable (thick) 	Data pair: 18 AWG (19x30 AWG) TC 6.9Ω/22.7Ω Power pair: 15 AWG (19x28 AWG) TC 3.6Ω/11.8Ω Drain wire: 18 AWG (19x30 AWG) TC	Data: Foam PE Blue/white .150/3.81 Power: PVC Black/red .098/2.49	Each pair: Al foil 100% Overall: 65% TC braid 1.75Ω/5.7Ω	Gray PVC .480/12.2	12.0 39.4	78%	120Ω	.125 .500 1.000	0.13 0.25 0.40	0.41 0.82 1.31
NEC/CEC PLTC SUN RES 1000										
5080 drop cable (thin) 	Data pair: 24 AWG (19x36 AWG) TC 28Ω/91.8Ω Power pair: 22 AWG (19x34 AWG) TC 17.5Ω/57.4Ω Drain wire: 22 AWG (19x34 AWG) TC	Data: Foam PE Blue/white .077/1.96 Power: PVC Black/red .055/1.40	Each pair: Al foil 100% Overall: 65% TC braid 3.2Ω/10.5Ω	Gray PVC .275/7.0	12.0 39.4	78%	120Ω	.125 .500 1.000	0.29 0.50 0.70	0.95 1.64 2.30
NEC/CEC CM/CL2 SUN RES 1000										
5070AI trunk cable (thick) interlocked aluminum armor 	Data pair: 18 AWG (19x30 AWG) TC 6.9Ω/22.7Ω Power pair: 15 AWG (19x28 AWG) TC 3.6Ω/11.8Ω Drain wire: 18 AWG (19x30 AWG) TC	Data: Foam PE Blue/white .150/3.81 Power: PVC Black/red .098/2.49	Each pair: Al foil 100% Overall: 65% TC braid 1.75Ω/5.7Ω Protective Armor: Interlocked Al	Inner: Gray PVC Outer: Blue PVC	12.0 39.4	78%	120Ω	.125 .500 1.000	0.13 0.25 0.40	0.41 0.82 1.31
NEC/CEC CM 1000										
5080AI drop cable (thin) interlocked aluminum armor 	Data pair: 24 AWG (19x36 AWG) TC 28Ω/91.8Ω Power pair: 22 AWG (19x34 AWG) TC 17.5Ω/57.4Ω Drain wire: 22 AWG (19x34 AWG) TC	Data: Foam PE Blue/white .077/1.96 Power: PVC Black/red .055/1.40	Each pair: Al foil 100% Overall: 65% TC braid 3.2Ω/10.5Ω Protective Armor: Interlocked Al	Inner: Gray PVC Outer: Blue PVC	12.0 39.4	78%	120Ω	.125 .500 1.000	0.29 0.50 0.70	0.95 1.64 2.30
NEC/CEC CM 1000										

Allen-Bradley Longline Cables



For Interconnection of Allen-Bradley Interface Modules

Pairs are individually shielded for extra protection from crosstalk and RF interference
Cable-in-conduit (CIC) versions are available

Catalog Number Safety Rating Packaging Option kft / km	Conductors Size & Type Nom DCR in / mm	Insulation Type & Color Conductor OD kft / km	Shields Type & Coverage Nom DCR in / mm	Jacket Color & Type Cable OD pF/ft† pF/m†	Nominal Capacitance pF/ft * pF/m*	Drain Wire Size & Type Nom DCR	Nominal Velocity of Propagation
6600 Riser  NEC/CEC CMR 	22 AWG (7x30 AWG) TC 14.7Ω/48.2Ω	PE Red/Black White/Green .050/1.27	Al foil over each pair	Gray PVC .165/4.19	33* 108* 60† 196†	24 AWG (7X32 AWG) TC 23.3Ω/76.4Ω	66%
6600TK Plenum  NEC/CEC CMP 	22 AWG (7x30 AWG) TC 14.7Ω/48.2Ω	FEP Red/Black White/Green .050/1.27	Al foil over each pair	White PVC .160/4.06	31* 102* 55† 180†	24 AWG (7X32 AWG) TC 23.3Ω/76.4Ω	69.5%

*denotes capacitance between conductors †denotes capacitance between one conductor and other conductor connected to the shield

 = 1000ft. Reel






ICAT 5e Industrial Ethernet Cables

For Moderate and High Levels of Noise and Flex "Industrial Factory Floor" Environments

Gigabit Ethernet /155 Mb/s ATM, 100 Mb/s TP-PMD/CDDI and Fast Ethernet Applications

Exceeds/meets ANSI/TIA/EIA/ 568B.2 Category 5e, CENELEC EN50173, ICEA S-90-661, Ethernet/IP

NEMA Low-loss Extended Frequency, AS/NZS 3085.1 and ISO/IEC 11801




Catalog Number Safety Rating Packaging Option	Conductors Size & Type Max DCR kft/km	Dielectric Type Nom OD in / mm	Shields Type & Coverage kft / km	Jacket Color & Type Cable OD in / mm.	Nominal Capacitance		Nom Vel. of Prop.	Nom Imp.	Maximum Attenuation	
					pF/ft	pF/m			MHz	dB/100m
2001 Moderate Noise Moderate Flex UV/Oil Resistant 	8-24 AWG Solid BC 28.6Ω/93.8Ω	PE .036/.92	None	Outer Jacket: Teal PVC .231/5.9 Inner Jacket: .195/4.9	14/46		68%	100Ω	1	2.0
									4	4.1
									8	5.8
									10	6.5
									16	8.2
									20	9.3
									25	10.4
									31.25	11.7
									62.5	17.0
									100	22.0
2002 Moderate Noise High Flex UV/Oil Resistant 	8-24 AWG Stranded TC 28.6Ω/93.8Ω	PE .040/1.02	None	Outer Jacket: Teal PVC .256/6.5 Inner Jacket: .220/5.6	14/46		67%	100Ω	.772	2.2
									1	2.4
									4	4.9
									8	6.9
									10	7.8
									16	9.9
									20	11.1
									25	12.5
									31.25	14.1
									62.5	20.4
2003 High noise Moderate flex UV/Oil Resistant 	8-24 AWG Solid BC 28.6Ω/93.8Ω Drain 24 AWG Solid TC	PE .040/1.02	Al/PET Tape 100% Coverage	Teal PVC .250/6.4	14/46		71%	100Ω	.772	1.8
									1	2.0
									4	4.1
									8	5.8
									10	6.5
									16	8.2
									20	9.3
									25	10.4
									31.25	11.7
									62.5	17.0
2003B High noise Moderate flex UV/Oil Resistant 	8-24 AWG Solid BC 28.6Ω/93.8Ω	PE .040/1.02	Al/PET Tape 100% Coverage Braid TC 65% Coverage	Outer Jacket: Teal PVC .290/7.4 Inner Jacket: .225/5.7	14/46		71%	100Ω	.772	1.8
									1	2.0
									4	4.1
									8	5.8
									10	6.5
									16	8.2
									20	9.3
									25	10.4
									31.25	11.7
									62.5	17.0
2004 High noise High flex UV/Oil Resistant 	8-24 AWG Stranded TC 28.6Ω/93.8Ω	PE .040/1.02	Al/PET Tape 100% Coverage Braid TC 65% Coverage	Outer Jacket: Teal PVC .285/7.3 Inner Jacket: .225/5.7	14/46		71%	100Ω	.772	2.2
									1	2.4
									4	4.9
									8	6.9
									10	7.8
									16	9.9
									20	11.1
									25	12.5
									31.25	14.1
									62.5	20.4

 = 1000ft. Reel

Ultra II Category 5e+ Twisted Pair Cables

For ANSI/TIA/EIA 568B Category 5e Extended Frequency LANs for Low Noise Factory Offices

Gigabit Ethernet /155 Mb/s ATM, 100 Mb/s TP-PMD/CDDI and Fast Ethernet Applications
Exceeds/meets ANSI/TIA/EIA/ 568B.2 Category 5e, CENELEC EN50173, ICEA S-90-661,
NEMA Low-loss Extended Frequency, AS/NZS 3085.1 and ISO/IEC 11801



Catalog Number Safety Rating Packaging Option	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Jacket OD and colors in / mm.	Nominal Capacitance pF/ft	Input Impedance	Maximum DCR	Velocity of Propagation	Shipping Wt. in lbs. kft / km
5504M  NEC/ CEC CMP	4	24 AWG Solid BC	FEP (Teflon) .007/.19 and FRPE .008/.20	CommFlex Flame- retardant PVC .017/.43	.195/5.0 White, blue, yellow, pink and gray*	14	100Ω ± 15Ω	28.6Ω/kft 9.4Ω/100m	71%	23/75.4
55N4R  NEC/CEC CMR/CMG	4	24 AWG Solid BC	PE .008/.20	PVC .022/0.6	.210/5.3 White, blue, yellow, pink and gray*	14	100Ω ± 15Ω	28.6Ω/kft 9.4Ω/100m	68%	21/68.8
5NF4 	4	24 AWG Solid BC	PE .010/.25	PE with Floodant .030/0.76	.240/6.1 Black	15	100Ω ± 15%	28.6Ω/kft 9.4Ω/100m	62%	38/124.6

*Colors other than these require a minimum order of 48,000 ft
Please refer to the Twisted Pair section of the catalog for Electrical Performance.

UltraMedia Category 6+ Twisted Pair Cables

For Low Noise Factory Office Applications

Broadband video, Gigabit Ethernet, 155 Mb/s ATM, 100 Mb/s TP-PMD/CDDI and Fast Ethernet Applications
Exceeds/meets ANSI/TIA/EIA/ 568-B.2.1 Category 6, NEMA 66-1999 Category 6
NEMA Low-loss Extended Frequency, AS/NZS 3085.1 and ISO/IEC 11801

Catalog Number Safety Rating Packaging Option	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Jacket OD and colors in / mm.	Nominal Capacitance pF/ft	Input Impedance	Maximum DCR	Velocity of Propagation	Shipping Wt. in lbs. kft / km
7504  NEC/CEC CMP	4	23 AWG Solid BC	3prs: FEP .008/.20 1pr: FSPE .008/.20	CommFlex Flame- retardant PVC .019/.48	.220/5.6 CommScope green, white and blue*	14	100Ω ± 15Ω	20.3Ω/kft 6.7Ω/100m	69%	27/88
75N4  NEC/CEC CMR/CMG	4	23 AWG Solid BC	PE .008/.20	PVC .022/.51	.230/6.1 White blue, and gray*	14	100Ω ± 15Ω	20.3Ω/kft 6.7Ω/100m	68%	25/82

*Colors other than these require a minimum order of 48,000 ft
Please refer to the Twisted Pair section of the catalog for Electrical Performance.

Rugged Interlock Armor with optional outer jacket

Interlock Armor is available on a wide range of CommScope cables. Interlock Armor is made to order with short minimum order lengths and quick order turn around, making it a very economical choice.

Benefits:

- Outstanding mechanical protection for sensitive cables combined with excellent flexibility
- Reduces data transmission loss/failures caused by accidental cut through or crushing, mechanical vibration and rub through damage via adjacent cables moves and changes.
- Security: Ideal for cabling applications which transmit critical data

Features:

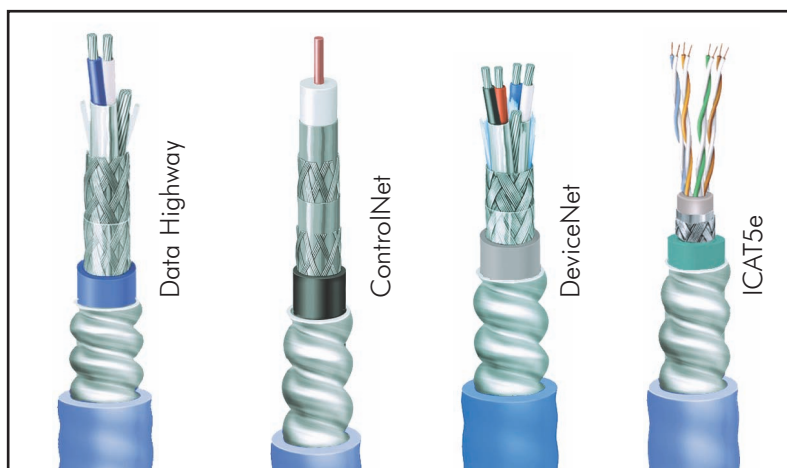
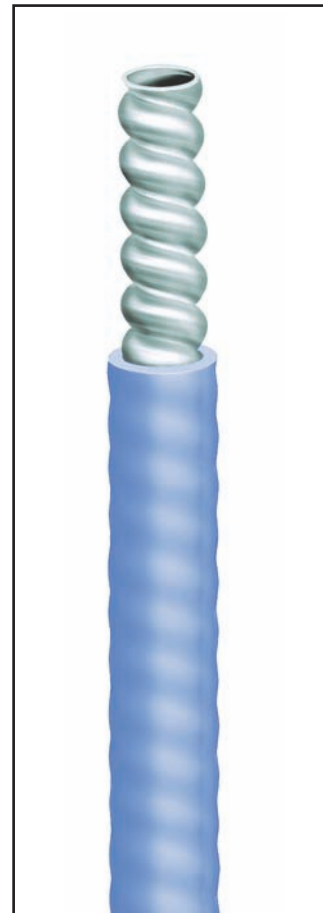
- Protection
 - Available in aluminum interlock armor
 - Meets CSA 51 Armored Cable requirements
 - Sunlight (UV) Resistant rated
- Flame Rating
 - CM and CMG rated. Riser and plenum ratings available
 - Meets UL444 and CSA-214-94 Communications Cable Requirements
- Outer jacket features:
 - Color coded for easy cable zoning and identification
 - Custom printing for ease of identification
 - Sequential length marking in foot or meter

Applications:

- Local Area Networks
- Factory Automation
- Critical Data Lines
- Video, Robotics

Typical Locations:

- Commercial construction and renovations: schools, health care, factory floor, OEMs
- Heavy industry: mining, pulp & paper, petro-chemical
- High security areas: hospitals, military installations, financial centers, casinos
- Outdoor and indoor applications



DH™ Data Highway Installations

Overview and Cabling Tips for DH+™ and Remote I/O™

DH™ Data Highway is one of the most popular methods of connecting an industrial control network. Up to 64 stations (programmable controller/adapters or a computer) may be joined over a Data Highway.

The Data Highway uses a twinaxial cable as both a trunk cable (the network backbone) and as a drop cable (which connect the trunkline to the station). A trunk cable may total up to 10,000 ft/3,048 meters) in overall length, while a drop cable may not exceed 100 ft/30 meters in length.

CommScope's 9022/4022 series twinaxial cables meet or exceed specific performance and construction standards established by manufacturers. The standard PVC-jacketed twinax is complemented by a broad range of other styles, including those intended for armored, aerial, burial, hi-flex, plenum and limited distance special application installations.

Data Highway Cable Connection and Termination

Two styles of connectors are offered for the Data Highway. If you frequently move stations or reconfigure your network, use connector kits, which use soldered jacks and plugs to attach station droplines and connect segments of trunkline. You will also need at least one terminator set, as unterminated connections will cause signal reflection and degrade system performance.

If you rarely reconfigure your network, use station connectors, which are grounded boxes with a screw-type terminal block for attaching the conductors.

The 1770-SC connector set comes with a 15-pin connector to attach the dropline to the controller.

Data Highway Cable Installation Tips

CommScope 9022 series cables are designed to deliver optimum electrical and mechanical performance under real-world conditions. However, manufacturers recommend that the cable be isolated as much as possible from electromagnetic interference(EMI), oils and chemicals, excessive heat/flame and physical movement, vibration and physical damage.

Electromagnetic interference can be avoided by:

- keeping the cable at least 3 ft/1 meter from electrical motors, transformers, arcs and microwave radiation
- running DH cables at a 90° angle to all power lines
- preventing the connectors from touching conductive surfaces
- if running in conduit, making sure the conduit is well grounded along its entire length.

Chemical and thermal problems can be avoided by:

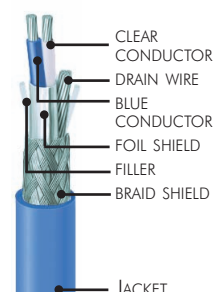
- keeping the cable away from oil, grease, acids, strong chemicals, open flame, steam and steam lines, boilers and equipment hotter than 60° C that might damage the cable
- water, steam or other liquids that might corrode the connectors.

Physical damage can be avoided by:

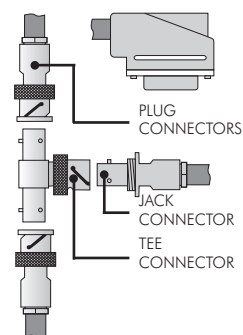
- routing the cable away from foot or vehicle traffic
- keeping away from abrasive surfaces such as concrete which may erode the cable
- not pulling the cable through undersize conduit.

Special note: Exerting tension on the cable at any time may damage the shielding or connectors. Always allow sufficient slack during installation so as to avoid any excessive tension.

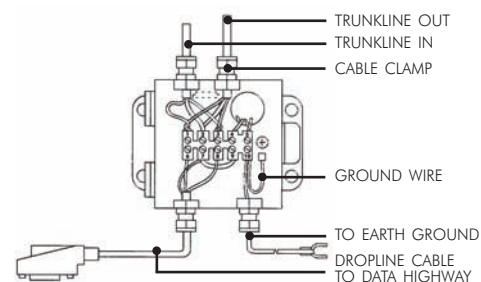
9022/4022 SERIES DATA HIGHWAY CABLE



1770-XG CONNECTOR SET



1770-SC STATION CONNECTOR



ControlNet™ Installations

Overview and Cabling Tips

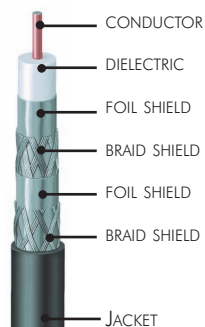
ControlNet™ is a real-time, 10 Mb/sec network that permits both I/O data communications and upload/download of programming and configuration data over the same link. A ControlNet network may consist of up to five trunk segments of up to 3280 ft/1000 meters in length. Segments may be linked with active repeaters to form a total network length of 16400 ft/5000 meters. ControlNet also supports a fiber optic option for even longer distances.

Depending on network length, a ControlNet system connects up to 99 nodes (with a maximum of 48 devices per single segment). A node is a connection via a tap and drop cable to any of a variety of ControlNet-compatible components. ControlNet also supports redundant links so that the network will continue to operate despite a break in one of the cables.

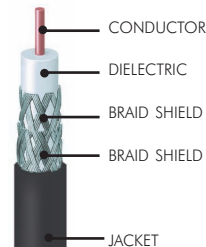
ControlNet uses a low-loss quad-shielded coaxial cable as a trunkline. **CommScope's 5060/5061 series of coax cables** is based on a time-tested design and are engineered to meet or exceed ControlNet standards. The 5060 series is available in several configurations, including those intended for armored, aerial, burial, hi-flex, plenum, riser and limited distance and special application installations.

ControlNet uses a double-braid shielded coaxial cable as a dropline. **CommScope's 5065 coaxial cable** is used in ControlNet droplines. Installers can also use CommScope's 5065 coaxial cable in shorter (limited) distance droplines that can be supported by this 24 AWG cable. In addition, the smaller size of CommScope's 5065 coaxial cable allows for easier installations in limited space areas such as control cabinets.

**5060/5061 SERIES
CONTROLNET CABLE**



**5065 SERIES
CONTROLNET CABLE**



ControlNet Cable Connection and Termination

All connections to the ControlNet trunk cable are made by taps, which may be installed anywhere along the trunk cable and have the drop cables already attached. BNC connectors are used to connect the taps to the trunk and link ControlNet cable segments. Only one unconnected drop cable (usually for maintenance purposes) is permitted. If you are planning a node but have not installed the device to which it will be attached, use a bullet connector on the trunk to reserve its location.

The number of taps on a segment will determine its maximum length. For instance, a segment with only two nodes can run the full 3280 ft/1000 meters. However, a segment supporting the maximum number of 48 nodes may only run 820 ft/250 meters. Repeaters count as devices, but not as nodes. 75W terminators must be attached to the ends of the trunk cable.

Taps, BNC connectors and terminators are available from several quality manufacturers.

ControlNet Cable Installation Tips

CommScope 5060 series cables are designed to deliver optimum electrical and mechanical performance under real-world conditions. In order to minimize electromagnetic interference (EMI), manufacturers offer some specific wiring recommendations:

- ControlNet cables are isolated from earth and **MUST** be protected from inadvertent grounding - do not let connectors touch grounded surfaces
- Keep ControlNet cable at least 5 ft/1.5 meters from any high-voltage enclosures or sources of RF/microwave radiation
- If you must cross power feed lines, do so at right angles
- If used, the entire length of the conduit/wireway must be grounded back to the enclosure.

Cabling Environment	Noise Source	Min. Safe distance
in an enclosure	Category-1 conductors <20A AC lines 20A to 100KVA AC lines >100KVA	3 in/0.08 m 6 in/0.15 m 24 in/0.60 m
in wireway/conduit	Category-1 conductors <20A AC lines 20A to 100KVA AC lines >100KVA	3 in/0.08 m 6 in/0.15 m 12 in/0.30 m
outside of conduit	Category-1 conductors <20A AC lines 20A to 100KVA AC lines >100KVA	6 in/0.15 m 12 in/0.30 m 24 in/0.60 m

Manufacturers also recommend routing around category-1 conductors such as AC power lines, high-power AC and DC digital I/O lines and motion drive/motor power connections (see the above chart).

DeviceNet™ Installations

Overview and Cabling Tips

DeviceNet™ is a low-cost communications link that both connects and powers industrial devices (switches, starters, sensors, drives, displays, etc.). Up to 64 devices can be controlled over a DeviceNet. Like ControlNet, DeviceNet components are manufactured by a broad range of affiliated suppliers.

CommScope's 5070 and 5080 power/data cables meet or exceed specific performance and construction standards established by the Open DeviceNet Vendors Association (ODVA). DeviceNet traditionally runs over a two-pair shielded cable (one power pair, one data pair) with a "thick" trunk cable (15 AWG power/18 AWG data) and a "thin," more flexible drop cable (22 AWG power/24 AWG data), although the trunk cable may be used as a drop cable as well. Both pairs are individually foil-shielded and covered with an overall braid shield.

Network length is dependent upon network speed. Using thick trunk cable:

- 125 kbps networks should not exceed 1,640 ft/500 meters with a cumulative drop length of 512 ft/156 meters
- 250 kbps should not exceed 820 ft/250 meters with a cumulative drop length of 256 ft/78 meters
- 500 kbps should not exceed 328 ft/100 meters with a cumulative drop length of 128 ft/39 meters.

Drop cables are limited to an overall length of 328 ft/100 meters regardless of network speed. The above cumulative drop length limits apply. Drop cables may not exceed 20 ft/6 meters in length for either network.

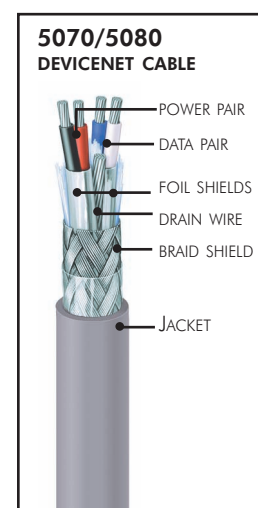
DeviceNet Cable Connection and Termination

A number of manufacturers produce closed-style mini and micro five-pin connectors for DeviceNet cables - open-style connectors are available as well. Consult the DeviceNet product catalog for vendors. Trunk cable ends should be terminated with the proper terminating resistors.

DeviceNet Cable Installation Tips

The power pair of a DeviceNet cable is rated for 300V - therefore, keep them away from higher voltage cables unless they can be physically isolated in the conduit or cable tray. A minimum distance of 3 in/76 mm is recommended.

The network should be grounded at one location only.



Longline Installations

Overview and Cabling Tips

Manufacturers' Longline connections are used to directly connect two interface modules. Longline uses RS-232-C communications protocol to link modules as far apart as 7000 ft/2135 meters. The length of the link is determined by the data transmission speed:

- 2400 bits/sec can run up to a maximum of 7000 ft/2135 meters
- 4800 bits/sec can run up to a maximum of 6000 ft/1830 meters
- 9600 bits/sec can run up to a maximum of 4000 ft/1220 meters
- 19200 bits/sec can run up to a maximum of 2000 ft/610 meters

Longline uses CommScope's 6600 series twin shielded twisted pair cable for data communications. CommScope offers both plenum 6600TK and non-plenum 6600 flame rated cables.

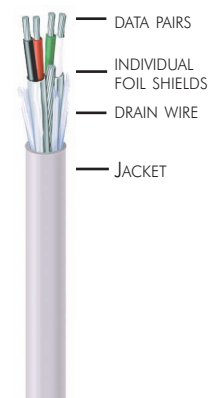
Longline Cable Connection and Termination

Longline cables are attached to a variety of devices by using standard 15 and 25 pin RS-232-C connectors.

Longline Cable Installation Tips

Install Longline cables with the same regard for AC power lines and other sources of RF and EMI as you would any other shielded twisted pair cable.

6600 SERIES LONGLINE CABLE



ICAT5e™ Installations and Cable Selection Matrix



Overview and Cabling Tips

Installations

ICAT5e Industrial Ethernet (LAN-twisted pair) Cables are projected for widespread use on the factory floor due to sophisticated end-user applications. The cables must meet the same minimum Category 5e specifications that are required of LAN cables. However, while located on the factory floor, they will be subjected to more harsh conditions than typical LAN cable.

The ICAT5e Cables are subjected to harsh conditions on the factory floor, such as varying levels of Electromagnetic Interference (EMI), UV exposure, fluids (oils, chemicals, etc.), extreme temperatures, physical movement, vibration, and physical damage due to the movement of other items in the area (forklifts, traffic, etc.). The Industrial Ethernet Cables are constructed of materials that reduce the effects of exposure to UV, fluids, and extreme temperatures. Interlocking armor or protective conduit decreases the potential for physical damage.

The ICAT5e Industrial Ethernet Cables are designed based on two levels of two environments (Noise & Flexure). CommScope offers four versions of the Industrial Ethernet Cables (2001-2004) which provide solutions to many combinations of noise (moderate, high) and flex (moderate, high) environments.

Cable Selection Matrix- Proper selection based on application, minimizes machine downtime.

A. Flex Life Requirement- based on machine life cycle or maintenance cycle.

1. Moderate Flex: 85,000 cycles

2. Hi-Flex: 4,000,000 cycles

*Minimum expected flex life per Commscope C-Track flex test, to Category 5e performance failure.

Commscope C-Track flex test-cable is flexed in a C-Track at the recommended installation minimum bend radius of 10x cable outer diameter at the rate of 1 cycle per second.

B. Noise Immunity Requirement- based on EMC Engineering evaluation.

1. Moderate Noise: suitable for unshielded cables. Assume 0dB shielding effectiveness baseline.

2. Hi-Noise: up to 50dB more shielding effectiveness.

Cable Selection Matrix

Flex Environment \ Noise Environment	Moderate Noise (0dB)	High Noise (50dB)
Moderate Flex (85K cycles*)	2001 Solid Conductor No Shield	2003 2003B Solid Conductor Shield
High Flex (4M cycles*)	2002 Stranded Conductor No Shield	2004 Stranded Conductor Shield

Networks and Cables

Part Number Cross Reference

Manufacturers require that cables for their networks meet exacting standards for design, materials, construction, and performance. In order to become an approved supplier, CommScope had to meet rigorous qualifications. This means that CommScope cables can be substituted for other industry-wide part numbers.

Refer to the table below for the CommScope cable that matches your application and the requisite (or other specifier) and trade part number. The cross reference provides the most accurate information available. It is the purchaser's responsibility to compare specification sheets and determine if these products meet the required specifications for their intended use.

Allen Bradley	Cable Description	Allen-Bradley Part Number	CommScope Part Number	Belden Part Number
DH™, DH+™ Data Highway™ Data Highway Plus™ Remote I/O™	General Purpose	1770 - CD	9022 Blue Highway™	9463 Blue Hose™
	Limited Distance/Special Applications	-	9024	-
	Dual Conductor	-	9022D	YR28826
	Plenum	-	4022K	89463
	Direct Burial	-	9022B	YR28762
	Interlocked Aluminum Armor	-	9022AI	129463
	Interlocked Galvanized Steel Armor	-	9022SI	139463
	Hi-Flex	-	9022F	YR28761
	Messengered	-	9022M	-
ControlNet™	General Purpose	1786 - RG6	5060	3092A
	Dual Conductor	-	5060D	9072
	Riser	-	5060R	3131A
	Plenum	-	5061 & 5061V	3093A
	Direct Burial	-	5060B	1190A
	Intrinsically Safe	-	5060IS	-
	Limited Distance/Special Applications	-	5065	-
	Corrugated Steel Armor	-	5060A	-
	Interlocked Aluminum Armor	-	5060AI	121189A
	Interlocked Galvanized Steel Armor	-	5060SI	-
	Hi-Flex	1786 RG6 F/A	5060F	YR28890
	Messengered	-	5060M	-
DeviceNet™	Trunk (Thick)	1485-PI-AXXX	5070	3082A
	Drop (Thin)	-	5080	3084A
	CPE Trunk (Thick)	-	5070CP	3083A
	CPE Drop (Thin)	1485-PI-CXXX	5080CP	3085A
	Interlocked Aluminum Armor (Thick)	-	5070AI	-
	Interlocked Aluminum Armor (Thin)	-	5080AI	-
Longline™	Riser	1778 - CR	6600	-
	Plenum	-	6600TK	88723

Note: Product specifications may change without notice and affect accuracy within cross reference.

Networks and Cables

Part Number Cross Reference

Manufacturers require that cables for their networks meet exacting standards for design, materials, construction, and performance. In order to become an approved supplier, CommScope had to meet rigorous qualifications. This means that CommScope cables can be substituted for other industry-wide part numbers.

Refer to the table below for the CommScope cable that matches your application and the requisite (or other specifier) and trade part number: The cross reference provides the most accurate information available. It is the purchaser's responsibility to compare specification sheets and determine if these products meet the required specifications for their intended use.

Ethernet	Cable Description	CommScope Part Number	Belden Part Number
Industrial Ethernet	ICAT5e Series Twisted Pair Category 5e Ethernet Cables	2001	7923A
		2002	7924A
		2003	7929A
		2003B	7921A
Gigabit Ethernet 155 Mb/s ATM	UltraMedia Category 6 Plenum	7504	1874A
	UltraMedia Category 6 Non Plenum	75N4	1872A
	Ultra II Category 5e+ Plenum	5504M	1701A
	Ultra II Category 5e+ Non Plenum	55N4	1700A

Note: Product specifications may change without notice and affect accuracy within cross reference.

M U L T I - C O N D U C T O R

Residential

Residential

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UltraHome® Application Overview

Uniprise

Copper

Fiber

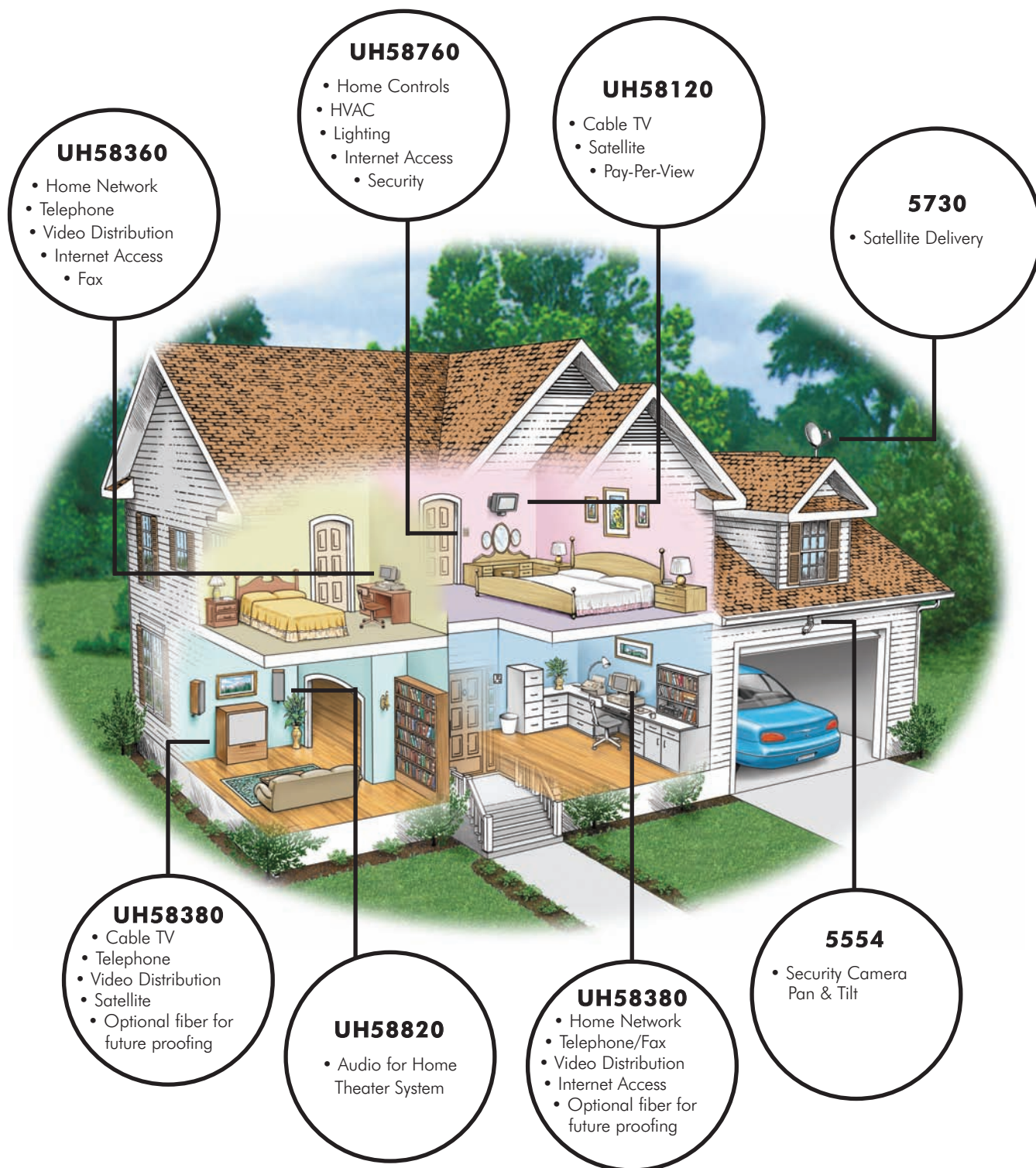
Coax

Residential

Conduit

Packaging

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For advertising only. Please consult with an expert for specific installation.

UltraHome® Coax Cable Description



Center Conductor

Conductors in coaxial cable are solid wire. Solid conductors are described by their diameter and material (i.e. 18 AWG Solid TC).

BC - Bare Copper

CCS - Copper Covered Steel

Shields

Coaxial shields (also called the outer conductor) come in several varieties. Two types of coverage are: **Foil**, where aluminum is bonded to both sides of a polypropylene or polyester tape to provide 100% coverage and **Braid** where flexible wire is woven around the dielectric. Braid coverage designation is given as a percentage followed by a two letter code representing the material of the braid (i.e. 96% BC braid).

Al- Aluminum braid

BC - Bare Copper braid

TC - Tinned Copper braid

Dielectric

Most CommScope coaxial cables have foamed (or cellular) dielectrics for better velocity of propagation characteristics. Different materials are used to meet electrical and fire-safety performance.

Foam PE - Foamed Polyethylene

Foam FEP - Foamed Fluorinated Ethylene Propylene

Jackets

Jacket material may vary depending on application. Plenum-rated cables provide superior fire safety, while flame-retardant PVC is used in riser, general purpose and residential situations. Outdoor cables (especially those meant for burial) are usually sheathed in polyethylene.

K - Kynar™ Polyvinylidene Fluoride (PVDF - used in plenum cables)

V - CommFlex, our proprietary jacketing compound (used in plenum cables)

PE - Polyethylene

PVC - Polyvinylchloride



Uniprise

Copper

Fiber

Coax

Residential

Conduit

Packaging

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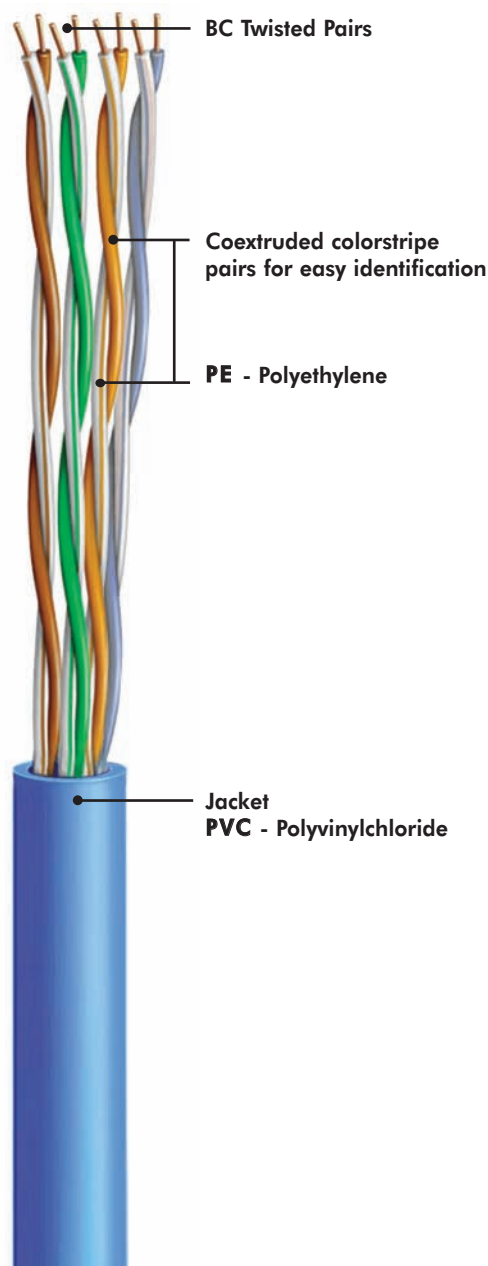
UltraHome® Twisted Pair Cable Description



Established by the telecommunications industry association and first published in ANSI/EIA/TIA-568 in 1991, the Category 5 designation applies to 100Ω unshielded twisted pair cables and associated connecting hardware whose transmission characteristics are specified up to 100MHz. Available from one to twenty-five pairs, typical applications range from voice to 155Mb/s, Fast Ethernet, ATM, TPDDI, CDDI, TP-PMD, 100 Base T.

UH 58760 Category 5e Cable

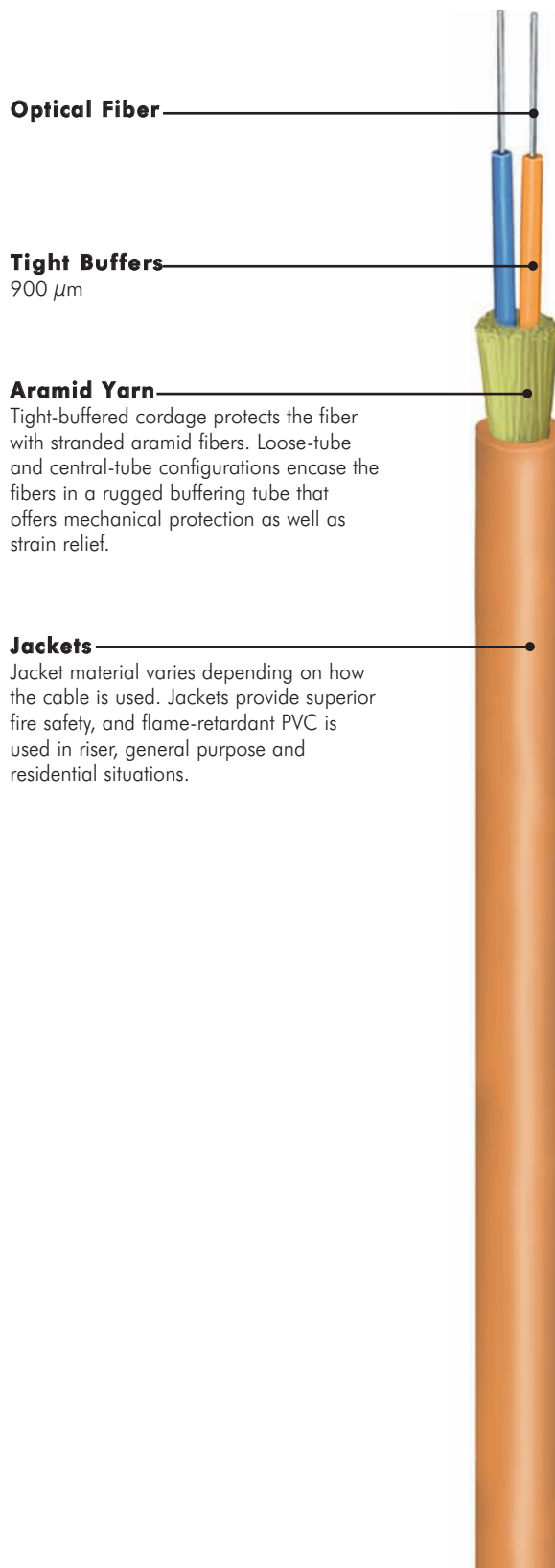
Often referred to as addendum 5, Category 5e was developed for simultaneous bi-directional transmission over 4-pairs. Improvements to Category 5 were made and additional electrical requirements such as power sum NEXT, equal level far-end crosstalk, power sum equal level far-end crosstalk, and return loss were added to create the 5e specification. Typical applications include those of Category 5 and full duplex encoding schemes such as gigabit Ethernet (1000 Base T).



**Electrical Performance of CommScope Twisted Pair Cable
UH58760 (Category 5e)**

Frequency MHz	Attenuation-max. dB/100m	Near End Cross Talk (NEXT)-min. dB	Attenuation to Crosstalk (ACR)-min. dB	Power Sum NEXT-min. dB	Power Sum ACR-min. dB	ELFEXT-min. dB	Power Sum ELFEXT dB	RL
0.772	1.8	67	65.2	64	62.2	66	63	19.4
1	2.0	65.3	63.3	62.3	60.3	63.8	60.8	20
4	4.1	56.3	52.2	53.3	49.2	51.7	48.7	23
8	5.8	51.8	46	48.8	43	45.7	42.7	24.5
10	6.5	50.3	43.8	47.3	40.8	43.8	40.8	25
16	8.2	47.3	39	44.3	36	39.7	36.7	25
20	9.3	45.8	36.5	42.8	33.5	37.7	34.7	25
25	10.4	44.3	33.9	41.3	30.9	35.8	32.8	24.3
31.25	11.7	42.9	31.2	39.9	28.2	33.9	30.9	23.6
62.5	17.0	38.4	21.4	35.4	18.4	27.8	24.8	21.5
100	22.0	35.3	13.3	32.3	10.3	23.8	20.8	20.1

UltraHome® Fiber Optic Cable Description



Optical Fiber

Tight Buffers

900 μm

Aramid Yarn

Tight-buffered cordage protects the fiber with stranded aramid fibers. Loose-tube and central-tube configurations encase the fibers in a rugged buffering tube that offers mechanical protection as well as strain relief.

Jackets

Jacket material varies depending on how the cable is used. Jackets provide superior fire safety, and flame-retardant PVC is used in riser, general purpose and residential situations.

Riser Rated Premise Distribution Fiber

CommScope premise cables were engineered with two goals in mind- excellent mechanical/optical performance couples with superior fire safety ratings. These goals are achieved in a cable that meets all critical NEC requirements for riser applications while offering unique resistance to installation and termination stresses.

Detailed product specification sheets are available at the new product spec sheet download area of our website.

Uniprise

Copper

Fiber

Coax

Residential

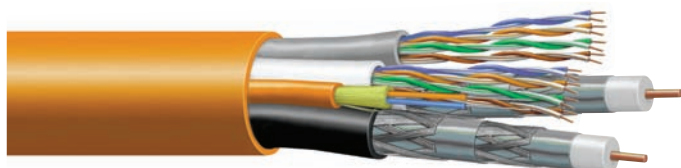
Conduit

Packaging

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UltraHome® Subunit Cables

Specifications Used In Hybrids




2 Quad Shield Series 6 Coaxial Cables
2 Four Pair Category 5e Cables
1 Two-Fiber interconnect Cable


Coaxial Component Cables

Catalog Number Safety Rating Packaging Options	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Dimensions in / mm.	Nominal Capacitance pF/ft pF/m	Nom Vel. of Prop.	Nom Imp.	Nominal Attenuation		
									MHz	dB/100'	dB/100m
 Dual Shield Series 6	18 AWG Solid BC 28.6Ω/93.8Ω	Foam PE .180/4.57	Al foil and 60% Al braid 9.7Ω/31.8Ω	Flame- retardant PVC .030/.76	.272/6.9	16.2 53.1	82%	75Ω	1	0.25	0.82
									10	0.66	2.16
									50	1.41	4.62
									100	1.92	6.30
									200	2.64	8.66
									400	3.73	12.23
									700	5.05	16.56
									900	5.79	18.99
									1000	6.11	20.04
									1200	6.73	22.07
 Quad Shield Series 6	18 AWG Solid BC 6.4Ω/21.3Ω	Foam PE .180/4.57	Al foil, 60% Al braid Al foil and 40% Al braid 5.3Ω/17.4Ω	Flame- retardant PVC .033/.83	.300/7.6	16.2 53.1	82%	75Ω	1450	7.49	24.57
									1800	8.43	27.65
									2200	9.35	30.67
									3000	10.92	35.82

Twisted Pair Component Cables

Catalog Number Safety Rating Packaging Options	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Dimensions in / mm.	Nominal Capacitance nF/100m	Input Impedance in	Maximum Direct Current Resistance	Near End Crosstalk @ 100 MHz dB/100 ft	Jacket Color
 Category 5e	4	24 AWG Solid BC	PE .006/.15	Flame- retardant PVC .022/.06	.195/4.9	4.6	100Ω ±15Ω	28.6Ω/kft 9.4Ω/100m	35 min.	Blue White Grey Yellow Red









Fiber Optic Component Cable

Catalog Number Safety Rating Packaging Options	Fiber Type	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load Short term lbs./ Newtons	Max. Tensile Load Long term lbs./ Newtons	Weight lbs/ 1000'	Weight kg/ 1000m
 Fiber Interconnect	Enhanced FDDI-grade 62.5/125μm tight buffered fiber	.14/36	2.8/7.2	1.4/3.6	270/1200	90/400	10.6	15.8

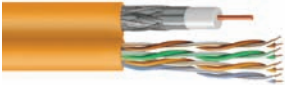


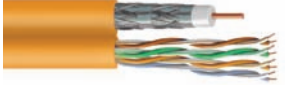





*For optical performance specifications, please refer to the Fiber Optic section of the catalog.

UltraHome® Category 6 Residential Products



Catalog Number Safety Rating Packaging Options	Component Cables	Descriptions	Cable Jacket Type nominal OD in / mm
UH68360   	2 Dual Shield Series 6 Coax Cables Two 4 pair Category 6 Cables	PE Insulation, 23 AWG Solid Copper Foamed PE Insulation, 18 AWG Solid Copper	PVC .665/16.9
UH68120  	2 Dual Shield Series 6 Coax Cables Two 4 pair Category 6 Cables	PE Insulation, 23 AWG Solid Copper Foamed PE Insulation, 18 AWG Solid Copper	FR-PVC .250/6.4 by .300/7.6
UH68380   	2 Dual Shield Series 6 Coax Cables Two 4 pair Category 6 Cables One 2-Fiber Interconnect Cable	PE Insulation, 23 AWG Solid Copper Foamed PE Insulation, 18 AWG Solid Copper PVC Buffered Optical Fiber	PVC .704/17.9

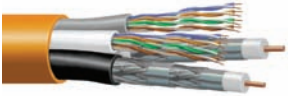
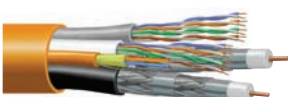
UltraHome® Bundled Products

Catalog Number Safety Rating Packaging Options	Component Cables	Descriptions	Cable Jacket Type nominal OD in / mm
UH58100   	One Dual Shield Series 6 coaxial cable One 4 pair Category 5e cable	CATV/DSS quality 18 AWG solid bare copper center conductor foil/60% braid Voice/Data Grade 24 AWG solid bare copper conductors Polyethylene insulation Siamese Design	PVC Riser .512/13 by .272/6.9
UH58120   	One Quad Shield Series 6 coaxial cable One 4 pair Category 5e cable	CATV/DSS quality 18 AWG solid bare copper center conductor foil/60% braid/foil/40% braid shields Voice/Data Grade 24 AWG solid bare copper conductors Polyethylene insulation Siamese Design	PVC Riser .532/13 by .300/7.6
UH58320   	Two Dual Shield Series 6 coaxial cables Two 4 pair Category 5e cables	CATV/DSS quality 18 AWG solid bare copper center conductors foil/60% braid Voice/Data Grade 24 AWG solid bare copper conductors Polyethylene insulation	PVC Riser .592/23.4




 = 1000ft. Reel  = 500ft. Reel

UltraHome® Bundled Products



Catalog Number Safety Rating Packaging Options	Component Cables	Descriptions	Cable Jacket Type nominal OD in / mm
UH58360  NEC CMR	Two Quad Shield Series 6 coaxial cables Two 4 pair Category 5e cables 1000 500	CATV/DSS quality 18 AWG solid bare copper center conductors foil/60% braid/foil/40% braid shields Voice/Data Grade 24 AWG solid bare copper conductors Polyethylene insulation	PVC Riser .615/15.6
UH58380  NEC CMR	Two Quad Shield Series 6 coaxial cables Two 4 pair Category 5e cables one 2-fiber interconnect cable 1000 500	CATV/DSS quality 18 AWG solid bare copper center conductors foil/60% braid/foil/40% braid shields Voice/Data Grade 24 AWG solid bare copper conductors Polyethylene insulation Enhanced FDDI-grade fiber 62.5/125μm tight buffered fiber	PVC Riser .575/14.6








UltraHome® Video Coax Products

Catalog Number Safety Rating Packaging Options	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Dimensions in / mm	Nominal Capacitance pF/ft pF/m	Nom Vel. of Prop.	Nom Imp.	Typical Attenuation		
									MHz	dB/100'	dB/100m
5716 Series 6  NEC CM CMH	18 AWG Solid CCS 28.6Ω/93.8Ω	Foam PE .180/4.57	Al foil and 55% Al braid 11.0Ω/31.8Ω	Flame- retardant PVC .032/.82	.270/6.9	16.0 52.5	82%	75Ω	1 0.37 1.21		
									10 0.66 2.16		
									50 1.41 4.62		
									100 1.92 6.30		
									200 2.64 8.66		
									400 3.73 12.23		
									700 5.05 16.56		
									900 5.79 18.99		
									1000 6.11 20.04		
5730 Series 6  NEC CM CMG	18 AWG Solid CCS 28.6Ω/93.8Ω	Foam PE .180/4.57	Al foil and 60% Al braid 9.7Ω/31.8Ω	Flame- retardant PVC .030/.76	.272/6.9	16.2 53.1	82%	75Ω	1200 6.73 22.07		
									1450 7.49 24.57		
									1800 8.43 27.65		
									2200 9.35 30.67		
									2500 9.97 32.70		
									3000 10.92 35.82		
5786 Series 6  NEC CM CMH	2 - 18 AWG Solid CCS 28.6Ω/93.8Ω	Foam PE .180/4.57	Al foil and 60% Al braid 9.7Ω/31.8Ω	Flame- retardant PVC .030/.76	.272/6.9 by .575/14.6 wide	16.2 53.1	82%	75Ω			

1000 = 1000ft. Reel 500 = 500ft. Reel

UltraHome® Video Coax Products









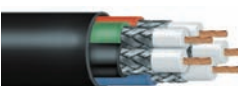



Catalog Number Safety Rating Packaging Options	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Dimensions in / mm	Nominal Capacitance pF/ft pF/m	Nom Vel. of Prop.	Nom Imp.	Typical Attenuation		
									MHz	dB/100'	dB/100m
5729 Series 6  NEC CM CEC CM	18 AWG Solid BC 6.4Ω/21.3Ω	Foam PE .180/4.57	Al foil and 60% Al braid 9.7Ω/31.8Ω	Flame- retardant PVC .030/7.6	.272/6.9	16.0 52.5	82%	75Ω	1	0.25	0.82
									10	0.66	2.16
5731 Series 6  NEC CM CEC CMG	18 AWG Solid BC 6.4Ω/21.3Ω	Foam PE .180/4.57	Al foil, 60% Al braid 9.7Ω/31.8Ω	Flame- retardant PVC .030/7.6	.272/6.9 by .417/10.6	16.2 53.1	82%	75Ω	50	1.41	4.62
									100	1.92	6.30
5743 Series 6  NEC CM CEC CMH	18 AWG Solid CCS 28.6Ω/93.8Ω	Foam PE .180/4.57	Quad shield Al foil and 55% Al braid Al foil and 35% Al braid 5.3Ω/17.4Ω	Flame- retardant PVC .034/.86	.298/7.6	16.0 52.5	82%	75Ω	200	2.64	8.66
									400	3.73	12.23
5781 Series 6  NEC CM CEC CMG	18 AWG Solid BC 6.4Ω/21.2Ω	Foam PE .180/4.57	Al foil, 60% Al braid Al foil and 40% Al braid 4.9Ω/16.1Ω	Flame- retardant PVC .033/.83	.300/7.6	16.2 53.1	82%	75Ω	700	5.05	16.56
									1000	6.11	20.04
5782 Series 6  NEC CM CEC CMG	2 - 18 AWG Solid BC 6.4Ω/21.3Ω	Foam PE .180/4.57	Al foil, 60% Al braid Al foil and 40% Al braid 4.9Ω/16.1Ω	Flame- retardant PVC .033/.83	.300/7.6 by .630/16.0	16.2 53.1	82%	75Ω	1200	6.73	22.07
									1450	7.49	24.57
5783 Series 6  NEC CM CEC CMG	18 AWG Solid BC 6.4Ω/21.3Ω	Foam PE .180/4.57	Al foil, 60% Al braid and Al foil 7.6Ω/24.9Ω	Flame- retardant PVC .030/.76	.278/7.0	16.2 53.1	82%	75Ω	1800	8.43	27.65
									2200	9.35	30.67
5784 Series 6  NEC CM CEC CMG	2 - 18 AWG Solid BC 6.4Ω/21.3Ω	Foam PE .180/4.57	Al foil, 60% Al braid and Al foil 7.6Ω/24.9Ω	Flame- retardant PVC .030/.76	.278/7.0 by .575/14.6	16.2 53.1	82%	75Ω	3000	10.92	35.82

1000 = 1000ft. Reel 500 = 500ft. Reel

UltraHome® Video Coax Products








Catalog Number Safety Rating Packaging Options	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Dimensions in / mm.	Nominal Capacitance		Nom Vel. of Prop.	Nom Imp.	Typical Attenuation		
						pF/ft	pF/m			MHz	dB/100'	dB/100m
5788 Series 6  NEC CM CEC CMH 	2-18 AWG Solid CCS 28.6Ω/93.8Ω Ground Wire 17 AWG Solid CCS	Foam PE .180/4.57	Al foil, 60% Al braid 9.7Ω/31.8Ω	Flame- retardant PVC .030/.76	.272/6.9 by .730/18.5 wide	16.2 53.1		82%	75Ω	1	0.37	1.21
										10	0.66	2.16
										50	1.41	4.62
										100	1.92	6.30
										200	2.64	8.66
										400	3.73	12.23
										700	5.05	16.56
										900	5.79	18.99
										1000	6.11	20.04
										1200	6.73	22.07
										1450	7.49	24.57
										1800	8.43	27.65
										2200	9.35	30.67
										3000	10.92	35.82
5916R Series 11  NEC CMR CEC CMR 	14 AWG Solid CCS 14.3Ω/46.9Ω	Foam PE .280/7.11	Al foil, 60% Al braid 7.1Ω/23.3Ω	Flame- retardant PVC .045/1.1	.395/10.0	16.2 53.1		82%	75Ω	1	0.20	0.66
										10	0.45	1.48
										50	0.89	2.92
										100	1.21	3.97
										200	1.68	5.51
										400	2.37	7.77
										700	3.27	10.73
										900	3.77	12.37
										1000	3.95	12.96
										1200	4.46	13.59
										1450	5.08	15.48
										1800	5.58	17.01
										2200	6.29	19.17
										3000	7.58	24.86
7538B Miniature Low-loss  NEC CM CEC CMG 	23 AWG Solid BC 20.3Ω/66.6Ω	Foam PE .100/2.51	Al foil and 95% TC braid 4.0Ω/13.1Ω .013/.33	Flame- retardant PVC	Black .159/4.0	16.5 54.1		84%	75Ω	1	0.38	1.24
										3.6	0.77	2.52
										10	1.29	4.23
										71.5	3.04	9.97
										135	4.18	13.71
										270	5.92	19.42
										360	6.70	21.98
										720	9.47	31.06
										1000	11.16	36.60
										2000	15.78	51.76
										3000	19.33	63.40
										4500	23.67	77.64
753803B Miniature Low-loss  NEC CM CEC CMR 	(3) Three 23 AWG Solid BC 20.3Ω/66.6Ω	Foam PE .100/2.51	Al foil and 95% TC braid 4.0Ω/13.1Ω .054/1.37	Flame- retardant PVC	Black .415/10.5	16.5 54.1		84%	75Ω	1	0.38	1.24
										3.6	0.77	2.52
										10	1.29	4.23
										71.5	3.04	9.97
										135	4.18	13.71
										270	5.92	19.42
										360	6.70	21.98
										720	9.47	31.06
										1000	11.16	36.60
										2000	15.78	51.76
										3000	19.33	63.40
										4500	23.67	77.64
753805B Miniature Low-loss  NEC CM CEC CMR 	(5) Five 23 AWG Solid BC 20.3Ω/66.6Ω	Foam PE .100/2.51	Al foil and 95% TC braid 4.0Ω/13.1Ω .054/1.37	Flame- retardant PVC	Black .540/13.7	16.5 54.1		84%	75Ω	1	0.38	1.24
										3.6	0.77	2.52
										10	1.29	4.23
										71.5	3.04	9.97
										135	4.18	13.71
										270	5.92	19.42
										360	6.70	21.98
										720	9.47	31.06
										1000	11.16	36.60
										2000	15.78	51.76
										3000	19.33	63.40
										4500	23.67	77.64

1000 = 1000ft. Reel

UltraHome® Security Products




Catalog Number Safety Rating Packaging Options	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD in / mm	Shields Type & Coverage Nom DCR kft / km	Jacket Type & Thickness in / mm	Cable Dimensions in / mm.	Nominal Capacitance pF/ft pF/m	Nom Vel. of Prop.	Nom Imp.	Nominal Attenuation		
									MHz	dB/100'	dB/100m
5553 Series 59  NEC CM 1000 CEC CMH	20 AWG Solid BC 10.5Ω/34.5Ω	Foam PE .144/3.66	93% BC Braid 3.9Ω/12.8Ω	Flame- retardant PVC .034/.86	.242/6.1	16.7 54.8	82%	75Ω	1 0.24 0.78 10 0.81 2.67 100 2.70 8.86 400 5.69 18.66		
5554 Series 59  NEC CL2 1000	20 AWG Solid BC 10.5Ω/34.5Ω and 18 AWG Pair (7x26) BC	Foam PE .146/3.71	93% BC Braid 3.9Ω/12.8Ω	Flame- retardant PVC .034/.86	.242/6.15 by .484/12.3	16.7 54.8	82%	75Ω	1 0.24 0.78 10 0.81 2.67 100 2.70 8.86 400 5.69 18.66		
5700 Series 6  NEC CM 1000 CEC CMH	18 AWG Solid BC 6.4Ω/21.3Ω	Foam PE .180/4.57	92% BC Braid 3.0Ω/9.9Ω	Flame- retardant PVC .035/.89	.272/6.9	16.2 53.2	82%	75Ω	1 0.19 0.62 10 0.65 2.14 100 2.16 7.09 400 4.55 14.93		
5654 Series 6  NEC CM 1000 CEC CMG	18 AWG Solid BC 6.4Ω/21.3Ω and 18 AWG Pair (7x.0159) BC	Foam PE .180/4.57	92% BC Braid 3.0Ω/9.9Ω	Flame- retardant PVC .035/.89	.272/6.9 by .514/13.06	16.2 53.2	82%	75Ω	1 0.19 0.62 10 0.65 2.14 100 2.16 7.09 400 4.55 14.93		
2037V Series 59  NEC CMP 1000 CEC CMP	20 AWG Solid BC 10.5Ω/34.5Ω	Foam FEP .135/3.43	93% BC Braid 3.6Ω/11.8Ω	CommFlexM .014/.36	.193/4.9	16.0 52.5	84%	75Ω	1 0.30 0.98 10 0.86 2.82 100 2.78 9.12 400 6.01 19.71		
2054K Series 59  NEC CMP 1000 CEC CMP	20 AWG Solid BC 10.5Ω/34.5Ω and 18 AWG Pair (7x26) BC	Foam FEP .135/3.43	93% BC Braid 3.6Ω/11.8Ω	PVDF(K) .015/.38	.193/4.9 by .386/9.8	16.0 52.5	84%	75Ω	1 0.30 0.98 10 0.86 2.82 100 2.78 9.12 400 6.01 19.71		
2039V Series 59  NEC CMP 1000 CEC CMP	20 AWG Solid CCS 47.0Ω/154Ω	Foam FEP .135/3.43	93% BC Braid 3.6Ω/11.8Ω	CommFlexM .016/.41	.193/4.9	16.0 52.5	84%	75Ω	1 0.56 1.84 10 0.86 2.82 100 2.78 9.12 400 6.01 19.71		
2277V Series 6  NEC CMP 1000 CEC CMP	18 AWG Solid BC 6.5Ω/21.2Ω	Foam FEP .170/4.32	92% BC Braid 4.4Ω/14.4Ω	CommFlexM .016/.41	.237/6.0	16.0 52.5	84%	75Ω	1 0.21 0.69 10 0.65 2.13 100 2.04 6.69 400 4.46 14.63		

1000 = 1000ft. Reel


 = ComPak

UltraHome® Twisted Pair Products



Catalog Number Safety Rating Packaging Options	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Dimensions in / mm.	Nominal Capacitance nF/100m	Input Impedance	Maximum Direct Current Resistance	Near End Crosstalk @ 100 MHz dB/100 ft	Jacket Color
UH58760 Category 5e  NEC CMR 1000 CEC CMG	4	24 AWG Solid BC	PE .006/.15	Flame- retardant PVC .022/.06	.195/4.9	4.6	100Ω ±15Ω	28.6Ω/kft 9.4Ω/100m	35 min.	Blue White Grey Yellow Red









UltraHome® Component/Audio Products

Catalog Number Safety Rating Packaging Options	Component Cables	Descriptions	Cable Jacket Type nominal OD in / mm
UH58890  NEC CMR 1000 500	One Audio cable One 4 pair Category 5e cable	16 AWG stranded bare copper center conductors (4) 19 Strand/.0117" Voice/Data Grade 24 AWG solid bare copper conductors Polyethylene insulation	.235/5.97 by .490/12.45



= 1000ft. Reel
 = 500ft. Reel
 = Reel-In-Box
 = ComPak

UltraHome® Audio Products



Catalog Number Safety Rating Packaging Options	No. of Conductors Size	Conductor Size & Type Nom DCR kft / km	Dielectric Type Nom OD	Jacket Type & Thickness	Diameter over Jacket
 UH58820 NEC CMR 	2 19 Strand/ .0117 in.	16 AWG 3.91Ω/12.8Ω	High Density PE .078	FR-PVC .022	.174
 UH58840 NEC CMR 	4 19 Strand/ .0117 in.	16 AWG 3.91Ω/12.8Ω	High Density PE .078	FR-PVC .022	.235
 UH58860 NEC CMR 	2 19 Strand/ .0142 in.	14 AWG 3.0Ω/9.8Ω	High Density PE .090	FR-PVC .022	.191
 UH58880 NEC CMR 	4 19 Strand/ .0142 in.	14 AWG 3.0Ω/9.8Ω	High Density PE .090	FR-PVC .022	.229

UltraHome® Fiber Optic Products

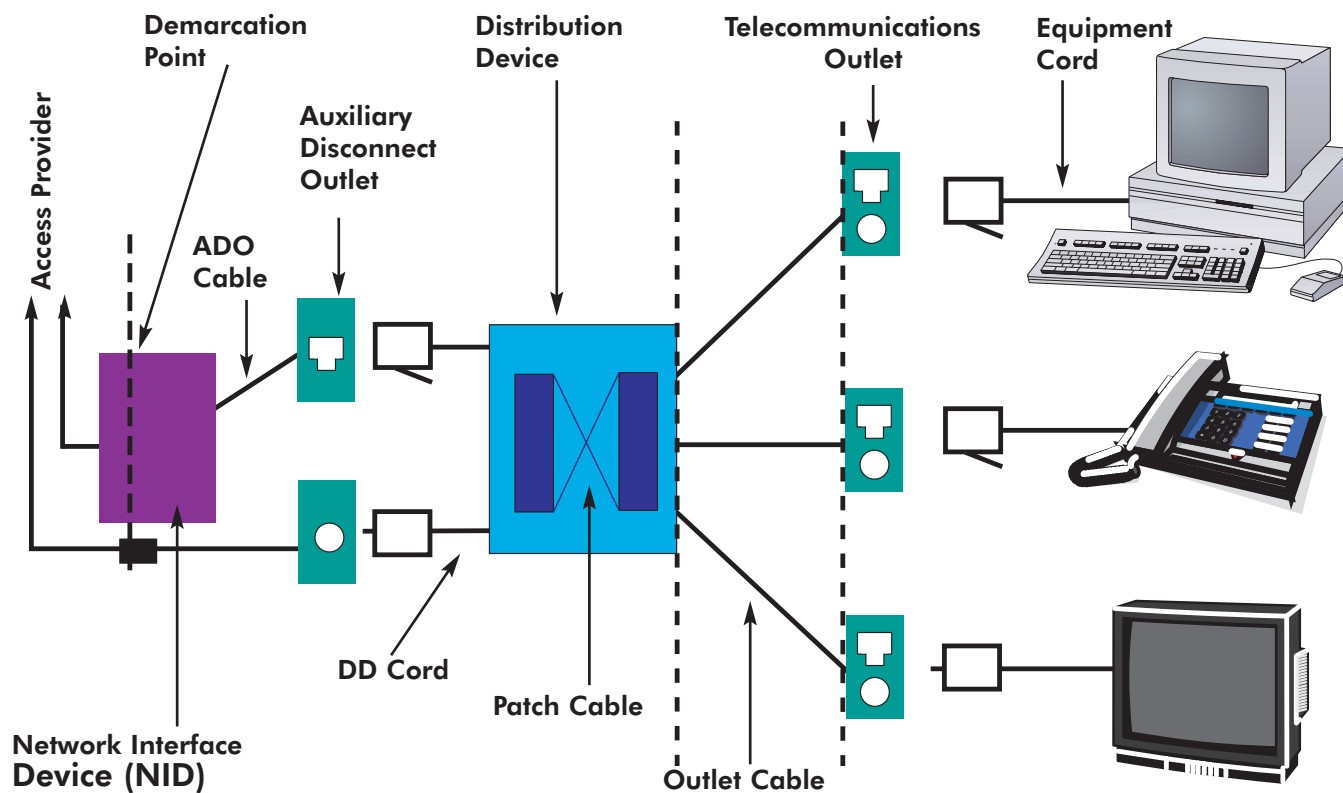
Catalog Number Safety Rating Packaging Options	Fiber Type	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Unloaded inch/cm	Max. Tensile Load Short term lbs./ Newtons	Long term lbs./Newtons	Weight lbs/ 1000'	kg/ 1000m
 R-002-IC-6F-FSDOR NEC OFNR 	Enhanced FDDI-grade 62.5/125μm tight buffered fiber	.14/36	2.8/7.2	1.4/3.6	270/1200	90/400	10.6	15.8

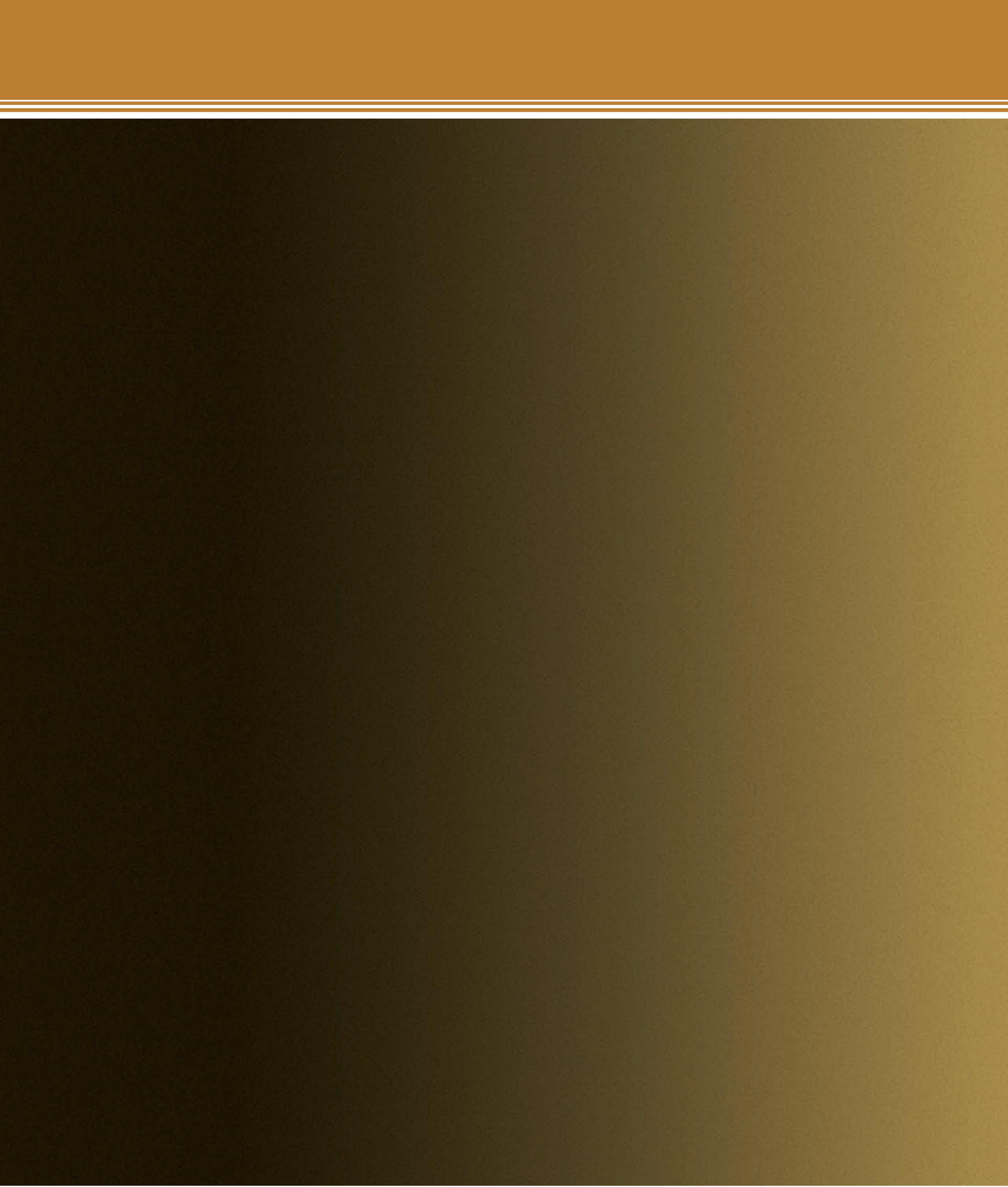
*For optical performance specifications, please refer to the Fiber Optic section of the catalog.

 = 1000ft. Reel

Structured Wiring Components for Residential

Typical Cabling System Components Per TIA/EIA 570-A for a Single Residential Unit





E N C L O S U R E S

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Enclosures

Introduction

Enclosures

Through its Enclosure product line, CommScope® now provides the physical structure and protection essential to making an infrastructure solution secure and complete. Created with the same high standards of quality, performance and reliability as the physical layer solutions themselves, CommScope Enclosures now give customers a single source for all network infrastructure component needs.

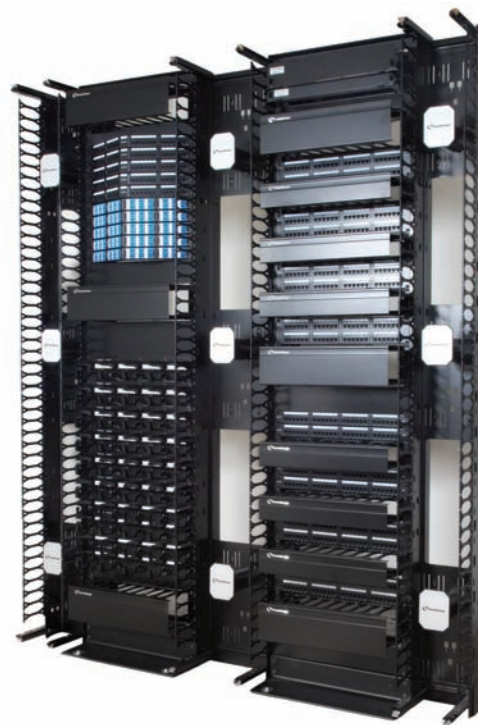
CommScope Enclosures include cabinets and racks and cable management devices, all designed and built to aid installation, enhance network management and protect CommScope network infrastructure components. This infrastructure framework is created to work ideally with CommScope solutions offerings and helps further protect your network's performance and your investment.

Cabinets

CommScope's cabinets are the right cabinet to protect the right solution. Using patented X-Frame technology, CommScope cabinets are designed to be the right size, the right weight and have the right level of durability to support the entire line of CommScope solutions, including the industry-leading 10 Gbps solutions. X-Frame technology reduces installation time by providing a rigid framework for equipment installation, even when all of the doors and the side have been removed. The right cabinet means less physical impact on the network infrastructure and, ultimately, on the network's performance.

Racks and Cable Management

While a necessity for managing, distributing and controlling structured cabling, all racks and cable management devices are not created equal. CommScope understands the potential negative impact on network performance and company productivity when installation and accessibility are challenging. CommScope designs its racks and cable management devices with the same level of detail and importance as its infrastructure solutions, ensuring that customers get the best product to protect and manage their investment.



Racks and Cable Management

Racks and Cable Management

CommScope Racks are versatile open frames that combine many attributes of standard open frame racks, vertical raceways and cable routing panels into the convenience of a single unit. Designed for 19 in EIA rack-mount equipment, CommScope Racks are extra wide and deep for multi-position cable hangers, providing superior front and rear cable management for any application. The CommScope Rack offering includes a wide range of products, including two post racks, four post racks, wall mount racks, shelves, ladder racks, cable trays and cable management.

Features and Benefits:

Equipment Racks

- Available in both 2-Post and 4-Post configurations
- Available Sizes:
 - Heights: 84 in, 96 in
 - Rail Widths: 3 in, 6 in, 12 in (2-Post)
 - Depth: 29 in, 36 in (4-Post)
- EIA-310-E compliant
- UL listed, Certification—Information Technology and

Communications Equipment

- Load Capacity:
 - 1000 lb (2 and 4-Post Aluminum)
 - 2000 lb (4-Post Steel)
- EIA Standard Hole Pattern:
 - EIA Standard Pattern with 12-24 Tapped Holes (Aluminum Rail)
 - EIA Standard Pattern with 3/8" Square Punches for Cage Nuts (Steel Rail)
- Material:
 - Al: 6061-T6 Aluminum Extrusion (3 in Rail)
 - Al: 6061-T6 0.125 in Thick, (6 in and 12 in Rail)
 - Steel: 14 Gauge (0.075 in Thick), CRS
- Finish: Durable black epoxy powder-coat
- Easily assembled, hardware included
- Packaged in one container, unassembled
 - (40) M6 mounting screws
 - (40) 12-24 mounting screws
 - (40) M6 cage nuts (steel rail only)

Wall Mount Racks

- Available in 12U, 20U and 25U heights
- Swinging door hinges from left or right side
- Cable lances in top and sides for cable ties and straps
- Load Capacity: 100 lb
- EIA-310-E compliant
- UL listed, Certification—Information Technology and Communications Equipment
- EIA Standard Hole Pattern:
 - EIA Standard Pattern with 12-24 Tapped Holes
- Material:
 - Steel: 14 Gauge (0.075 in Thick), CRS
- Finish: Durable black epoxy powder-coat
- Easily mounts to wall surface
- Packaged in one container, unassembled
- Kit includes assembly hardware and cable ties
- Designed for use in telecommunications and equipment rooms

Horizontal Cable Management

- Available for 19 inch rail spacing in three heights—1U, 2U and 3U
- Black with diamond cut CommScope Logo in emboss
- Horizontal cover – Hinges up or down and locks into position in each orientation
- Cylindrical finger ends for easy snap on installation of horizontal cover
- Open back on 2U and 3U horizontal troughs for easy pass through of cables

Vertical Cable Management

- Lightweight, but sturdy door, available in 8 sizes
- Elegantly styled and plated door handles
- Dual hinge latching door can be opened right or left
- Door automatically latches as door is closed or snapped into hinge bracket
- Front and rear doors are standard on double-sided troughs
- Patent pending door latching mechanism
- C- Channel hinge bracket allows free and open access to the entire length of the trough
- One-point ergonomic door install/removal system
- Vertical trough used to bay multiple racks together
- Available in four widths and two heights
 - Widths: 6 in, 8 in, 10 in and 12 in
 - Heights: 84 in, 96 in
- Single and doublesided troughs available
- Flexible X-Style cable fingers allow cables easily in or out for quick cable routing
- Cable fingers are spaced at 1RMU increments for exact alignment with EIA standard rack spacing
- Optimally contoured cable fingers separate, organize and maintain patch cords in desired position
- Cable finger radius protects cables during installation and use
- Cable fingers provide effortless solution transitioning cables from vertical to horizontal planes
- Cable fingers support up to 48 cables per RMU
- Cable fill capacity up to 1600 cables at maximum fill or 673 cables at 40% fill (Class EA, Category 6A)
- Opentrough back reduces weight and allows cable or cords to transition easily from front to rear of trough
- Snaps easily (no tools or fasteners required) onto trough and provides cable and fiber slack management

Uniprise

Copper

Fiber

Coax

Enclosures

Conduit

Packaging

Glossary/Index

Racks and Cable Management

2 Post Racks & Shelves

Material ID	Catalog Number	Description
760082479	RK3-45A	3 in Channel x 7 ft H - 19 in Al Equipment Rack (45U), 12-24 Tapped Rails, Black
760082487	RK3-52A	3 in Channel x 8 ft H - 19 in Al Equipment Rack (52U), 12-24 Tapped Rails, Black
760082495	RK6-45A	6 in Channel x 7 ft H - 19 in Al Equipment Rack (45U), 12-24 Tapped Rails, Black
760082503	RK6-52A	6 in Channel x 8 ft H - 19 in Al Equipment Rack (52U), 12-24 Tapped Rails, Black
760082511	RK12-45A	12 in Channel x 7 ft H - 19 in Al Equipment Rack (45U), 12-24 Tapped Rails, Black
760090100	RK12-52A	12 in Channel x 7 ft H - 19 in Al Equipment Rack (52U), 12-24 Tapped Rails, Black
760090118	RK3-45S	3 in Channel x 7 ft H - 19 in Steel Equipment Rack (45U), 3/8 Sq Punch, Black
760090126	RK3-52S	3 in Channel x 8 ft H - 19 in Steel Equipment Rack (52U), 3/8 Sq Punch, Black
760090134	RK6-45S	6 in Channel x 7 ft H - 19 in Steel Equipment Rack (45U), 3/8 Sq Punch, Black
760090142	RK6-52S	6 in Channel x 8 ft H - 19 in Steel Equipment Rack (52U), 3/8 Sq Punch, Black
760090159	RK12-45S	12 in Channel x 7 ft H - 19 in Steel Equipment Rack (45U), 3/8 Sq Punch, Black
760090167	RK12-52S	12 in Channel x 8 ft H - 19 in Steel Equipment Rack (52U), 3/8 Sq Punch, Black
760103010		3 Foot 2-Post Aluminum Rack, Black

*Available in Asia-Pacific region only.

Hardware Included with 2 Post Racks - Steel Rails:

Instruction sheet, (2) Vertical rack rails, (2) Extruded base angles, (2) Extruded top angles, (12) 3/8-16 UNC x 1 in. hex head bolts, (12) 3/8-16 hex nuts, (12) 3/8 split lock washers, (40) M6 x 12 mounting screws, (40) M6 cage nuts

Hardware Included with 2 Post Racks - Aluminum Rails:

Instruction sheet, (2) Vertical rack rails, (2) Extruded base angles, (2) Extruded top angles, (12) 3/8-16 UNC x 1 in. hex head bolts, (12) 3/8-16 hex nuts, (12) 3/8 split lock washers, (40) 12-24 x 1/2 in. mounting screws

Shelves for 2 Post Racks

Material ID	Catalog Number	Description
760084178	SL50SS	Cantilevered Shelf, Steel, Solid, 50 lb Capacity, 19 in Rack Mountable, 3.50 in PS, 2U, 19.00 in D, Black
760084186	SL375DS	Center Weight Shelf, Steel, Solid, 75 lb Capacity, 19 in Rack Mountable, 3.50 in PS, 2U, 19.00 in D, Black
760085456	SL19-FKB	Keyboard Roll Out Tray, Tilt, No Pad, 19 in Rack Mountable, Black



2 Post Rack



RK3-45A



RK6-45A

Racks and Cable Management



4 Post Racks and Shelves

Material ID	Catalog Number	Description
760082529	RK4P45-29A	29 in D x 7 ft H - 19 in Al Equipment Rack (45U), 12-24 Tapped Rails, Black
760082537	RK4P52-29A	29 in D x 8 ft H - 19 in Al Equipment Rack (52U), 12-24 Tapped Rails, Black
760082545	RK4P45-29S	29 in D x 7 ft H - 19 in Steel Equipment Rack (45U), 3/8 Sq Punch, Black
760082552	RK4P52-29S	29 in D x 8 ft H - 19 in Steel Equipment Rack (52U), 3/8 Sq Punch, Black
760082560	RK4P45-36A	36 in D x 7 ft H - 19 in Al Equipment Rack (45U), 12-24 Tapped Rails, Black
760082578	RK4P52-36A	36 in D x 8 ft H - 19 in Al Equipment Rack (52U), 12-24 Tapped Rails, Black
760082586	RK4P45-36S	36 in D x 7 ft H - 19 in Steel Equipment Rack (45U), 3/8 Sq Punch, Black
760082594	RK4P52-36S	36 in D x 8 ft H - 19 in Steel Equipment Rack (52U), 3/8 Sq Punch, Black

Hardware Included with 4 Post Racks:

Instruction sheet, (40) Cage nuts (If square punched rails are requested, (40) Mounting screws

Shelves for 4 Post Racks

Material ID	Catalog Number	Description
760085423	SL4P24-100VN	Low Profile Cabinet Shelf, Fixed, Vented, 100 lb Capacity, 19 in W x 24 in D, Black, Fits 29 in D 4 - Post Racks
760085431	SLR4P24-150VN	Low Profile Cabinet Shelf, Roll Out, Vented, 150 lb Capacity, 19 in W x 24 in D, Black, Fits 29 in D 4 - Post Racks
760085480	SL4P28-100VN	Low Profile Cabinet Shelf, Fixed, Vented, 100 lb Capacity, 19 in W x 28 in D, Black, Fits 29 in D 4 - Post Racks
760085464	SL4P28-400VN	Low Profile Cabinet Shelf, Fixed, Vented, 400 lb Capacity, 19 in W x 28 in D, Black, Fits 29 in D 4 - Post Racks
760085415	SLR4P28-150VN	Low Profile Cabinet Shelf, Roll Out, Vented, 150 lb Capacity, 19 in W x 28 in D, Black, Fits 29 in D and 36 in D 4 - Post Racks



4 Post Rack

Uniprise

Copper

Fiber

Coax

Enclosures

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Packaging

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Racks and Cable Management

Wall Mount Racks

Material ID	Catalog Number	Description
760085498	RW12-18	12U x 18 in D Swinging 19 in Wall Rack, Black
760085506	RW20-18	20U x 18 in D Swinging 19 in Wall Rack, Black
760085514	RW25-18	25U x 18 in D Swinging 19 in Wall Rack, Black

Hardware Included with 4 Post Racks:

Instruction sheet, (12) Mounting screws



Wall Mount Rack

Racks and Cable Management

Filler Panels

Material ID	Catalog Number	Description
760085712	RKFP1U-B	1U 19 in Filler Panel, Black
760085720	RKFP2U-B	2U 19 in Filler Panel, Black
760085738	RKFP3U-B	3U 19 in Filler Panel, Black



Filler Panels

Racks and Cable Management

Quick Release Blank Panels

Material ID	Catalog Number	Description
760103473	QR-RKFP1U-B	Kit, 1U x 19 in. Blank Panel, Quick Release
760103481	QR-RKFP2U-B	Kit, 2U x 19 in. Blank Panel, Quick Release
760103499	QR-RKFP4U-B	Kit, 4U x 19 in. Blank Panel, Quick Release

*Only compatible with CommScope steel rail racks



Quick Release Blank Panel

Racks and Cable Management



Ladder Racks

Ladder Rack - Straight Sections

Material ID	Catalog Number	Description
760085597	CR-SLR-6L6W	Straight Ladder Rack 6 ft L x 6 in W, Black
760085605	CR-SLR-6L12W	Straight Ladder Rack 6 ft L x 12 in W, Black
760085613	CR-SLR-6L18W	Straight Ladder Rack 6 ft L x 18 in W, Black
760085621	CR-SLR-6L24W	Straight Ladder Rack 6 ft L x 24 in W, Black
760085639	CR-SLR-10L6W	Straight Ladder Rack 10 ft L x 6 in W, Black
760085647	CR-SLR-10L12W	Straight Ladder Rack 10 ft L x 12 in W, Black
760085654	CR-SLR-10L18W	Straight Ladder Rack 10 ft L x 18 in W, Black
760085662	CR-SLR-10L24W	Straight Ladder Rack 10 ft L x 24 in W, Black

Ladder Rack - Flat Radius Sections

Material ID	Catalog Number	Description
760085522	CR90FCB-6W	Ladder Rack 90° Radius Flat Corner Bend, 6 in W, Black
760085530	CR90FCB-12W	Ladder Rack 90° Radius Flat Corner Bend, 12 in W, Black
760085548	CR90FCB-18W	Ladder Rack 90° Radius Flat Corner Bend, 18 in W, Black
760085555	CR90FCB-24W	Ladder Rack 90° Radius Flat Corner Bend, 24 in W, Black

Ladder Rack - Inside Radius Sections

Material ID	Catalog Number	Description
760085670	CR90ICB-6W	Ladder Rack 90° Radius Inside Corner Bend, 6 in W, Black
760085688	CR90ICB-12W	Ladder Rack 90° Radius Inside Corner Bend, 12 in W, Black
760085696	CR90ICB-18W	Ladder Rack 90° Radius Inside Corner Bend, 18 in W, Black
760085704	CR90ICB-24W	Ladder Rack 90° Radius Inside Corner Bend, 24 in W, Black



Ladder Rack, Inside Radius Sections

Ladder Rack - Outside Radius Sections

Material ID	Catalog Number	Description
760086074	CR90OCB-6W	Ladder Rack 90° Radius Outside Corner Bend, 6 in W, Black
760086082	CR90OCB-12W	Ladder Rack 90° Radius Outside Corner Bend, 12 in W, Black
760086090	CR90OCB-18W	Ladder Rack 90° Radius Outside Corner Bend, 18 in W, Black
760086108	CR90OCB-24W	Ladder Rack 90° Radius Outside Corner Bend, 24 in W, Black

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Racks and Cable Management

Ladder Rack Accessories

Material ID	Catalog Number	Description
760083899	CRBSK	Ladder Rack Butt Splice Kit, Black
760083907	CRCMK3-8TR	Ladder Rack Ceiling Mounting Kit (For 3/8 in Threaded Rod), Black
760083915	CRCMK5-8TR	Ladder Rack Ceiling Mounting Kit (For 5/8 in Threaded Rod), Black
760083923	CRSBK5-8TR	Ladder Rack Support Bracket Kit (For 5/8 in Threaded Rod), Black
760083931	CRSMCRDK	Ladder Rack Side Mount Cable Radius Drop Kit, Fits All Sizes, Black
760083949	CRDK-6W	Cable Radius Drop Kit For 6 in W Ladder Rack, Black
760083956	CRDK-12W	Cable Radius Drop Kit For 12 in W Ladder Rack, Black
760083964	CRDK-18W	Cable Radius Drop Kit For 18 in W Ladder Rack, Black
760083972	CRRP-6H	Ladder Rack Cable Retaining Post, 6 in H (1 Each), Black
760083980	CRRP-8H	Ladder Rack Cable Retaining Post, 8 in H (1 Each), Black
760083998	CRRP-10H	Ladder Rack Cable Retaining Post, 10 in H (1 Each), Black
760084004	CRBK-RS	Universal Rack Support Kit, Black
760084012	CRPECK	Ladder Rack Protective End Cap Kit (2 Caps), Black Rubber
760084020	CRFK	Ladder Rack Foot Kit, Black
760084038	CRJBMK	Ladder Rack J-Bolt Mounting Kit, Black
760084046	CRTJSK	Ladder Rack T-Junction Splice Kit, Black



CRBSK



CRCMK3-8TR



CRCMK5-8TR



CRSBK5-8TR



CRSMCRDK



CRRP-8H



CRBK-RS



CRFK



CRJBMK



CRTJSK



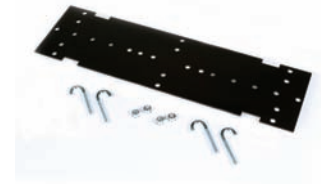
CRBK-RS

Racks and Cable Management



Ladder Rack Accessories

Material ID	Catalog Number	Description
760084053	CRR2RRMK	Ladder Rack To Relay Rack Mounting Kit, 19 in W, 5.375 in D, Black
760084061	CRTR625-6L	Ladder Rack, 5/8-11 UNC-2A Threaded Rod 6 ft L, Clear Zinc
760084079	CRTR360-6L	Ladder Rack, 3/8-16 UNC-2A Threaded Rod 6 ft L, Clear Zinc
760084087	CRTWSBK-6W	Ladder Rack Triangular Wall Support Bracket Kit, 6 in W, Black
760084095	CRTWSBK-12W	Ladder Rack Triangular Wall Support Bracket Kit, 12 in W, Black
760084103	CRTWSBK-18W	Ladder Rack Triangular Wall Support Bracket Kit, 18 in W, Black
760084111	CRTWSBK-24W	Ladder Rack Triangular Wall Support Bracket Kit, 24 in W, Black
760084129	CRVALS	Ladder Rack Variable Angle Ladder Splice, Black
760084137	CRVWBK	Ladder Rack Vertical Wall Bracket Kit (2 Brackets), Black
760084145	CR6-12WRSK	Ladder Rack 6 in-12 in Wall Rail Support Kit, Black
760084152	CR15-18WRSK	Ladder Rack 15 in-18 in Wall Rail Support Kit, Black
760084160	CR12-24WRSK	Ladder Rack 12 in-24 in Wall Rail Support Kit, Black



CRR2RRMK



CRTR625-6L



CRTWSBK-18W



CRVALS



CRVALS



CR6-12WRSK

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Racks and Cable Management

Cable Management

Material ID	Catalog Number	Description
760072785	VCM-DS-84-6	VCM Kit, 6 in x 84 in (15.24 cm x 213.4 cm), Double Sided, With Doors
760089342	VCM-DS-84-6B	VCM Kit, 6 in x 84 in (15.24 cm x 213.4 cm), Double Sided, With Doors, Black
760072793	VCM-DS-84-8	VCM Kit, 8 in x 84 in (20.3 cm x 213.4 cm), Double Sided, With Doors
760089359	VCM-DS-84-8B	VCM Kit, 8 in x 84 in (20.3 cm x 213.4 cm), Double Sided, With Doors, Black
760072801	VCM-DS-84-10	VCM Kit, 10 in x 84 in (25.4 cm x 213.4 cm), Double Sided, With Doors
760089367	VCM-DS-84-10B	VCM Kit, 10 in x 84 in (25.4 cm x 213.4 cm), Double Sided, With Doors, Black
760072819	VCM-DS-84-12	VCM Kit, 12 in x 84 in (30.5 cm x 213.4 cm), Double Sided, With Doors
760089375	VCM-DS-84-12B	VCM Kit, 12 in x 84 in (30.5 cm x 213.4 cm), Double Sided, With Doors, Black
760072827	VCM-DS-96-6	VCM Kit, 6 in x 96 in (15.24 cm x 243.84 cm), Double Sided, With Doors
760089383	VCM-DS-96-6B	VCM Kit, 6 in x 96 in (15.24 cm x 243.84 cm), Double Sided, With Doors, Black
760072835	VCM-DS-96-8	VCM Kit, 8 in x 96 in (20.3 cm x 243.84 cm), Double Sided, With Doors
760089391	VCM-DS-96-8B	VCM Kit, 8 in x 96 in (20.3 cm x 243.84 cm), Double Sided, With Doors, Black
760072843	VCM-DS-96-10	VCM Kit, 10 in x 96 in (25.4 cm x 243.84 cm), Double Sided, With Doors
760089409	VCM-DS-96-10B	VCM Kit, 10 in x 96 in (25.4 cm x 243.84 cm), Double Sided, With Doors, Black
760072850	VCM-DS-96-12	VCM Kit, 12 in x 96 in (30.5 cm x 243.84 cm), Double Sided, With Doors
760089417	VCM-DS-96-12B	VCM Kit, 12 in x 96 in (30.5 cm x 243.84 cm), Double Sided, With Doors, Black
760072868	VCM-SS-84-6	VCM Kit, 6 in x 84 in (15.24 cm x 213.4 cm), Single Sided, With Door
760089425	VCM-SS-84-6B	VCM Kit, 6 in x 84 in (15.24 cm x 213.4 cm), Single Sided, With Door, Black
760072876	VCM-SS-84-8	VCM Kit, 8 in x 84 in (20.3 cm x 213.4 cm), Single Sided, With Door
760089433	VCM-SS-84-8B	VCM Kit, 8 in x 84 in (20.3 cm x 213.4 cm), Single Sided, With Door, Black
760072884	VCM-SS-84-10	VCM Kit, 10 in x 84 in (25.4 cm x 213.4 cm), Single Sided, With Door
760089441	VCM-SS-84-10B	VCM Kit, 10 in x 84 in (25.4 cm x 213.4 cm), Single Sided, With Door, Black
760072892	VCM-SS-84-12	VCM Kit, 12 in x 84 in (30.5 cm x 213.4 cm), Single Sided, With Door
760089458	VCM-SS-84-12B	VCM Kit, 12 in x 84 in (30.5 cm x 213.4 cm), Single Sided, With Door, Black
760072900	VCM-SS-96-6	VCM Kit, 6 in x 96 in (15.24 cm x 243.84 cm), Single Sided, With Door
760089466	VCM-SS-96-6B	VCM Kit, 6 in x 96 in (15.24 cm x 243.84 cm), Single Sided, With Door, Black
760072918	VCM-SS-96-8	VCM Kit, 8 in x 96 in (20.3 cm x 243.84 cm), Single Sided, With Door
760089474	VCM-SS-96-8B	VCM Kit, 8 in x 96 in (20.3 cm x 243.84 cm), Single Sided, With Door, Black
760072926	VCM-SS-96-10	VCM Kit, 10 in x 96 in (25.4 cm x 243.84 cm), Single Sided, With Door
760089482	VCM-SS-96-10B	VCM Kit, 10 in x 96 in (25.4 cm x 243.84 cm), Single Sided, With Door, Black
760072934	VCM-SS-96-12	VCM Kit, 12 in x 96 in (30.5 cm x 243.84 cm), Single Sided, With Door
760089490	VCM-SS-96-12B	VCM Kit, 12 in x 96 in (30.5 cm x 243.84 cm), Single Sided, With Door, Black
760072942	HTK-19-SS-1U	1 RU 19 in (48.3 cm) SS Horizontal Trough Kit
760072959	HTK-19-SS-2U	2 RU 19 in (48.3 cm) SS Horizontal Trough Kit
760072967	HTK-19-SS-3U	3 RU 19 in (48.3 cm) SS Horizontal Trough Kit
760073007	CABLE-MGT-SP	Cable Management Spool



Double Sided Vertical Cable Management



Single Sided Vertical Cable Management



Horizontal Cable Management



Spools

Hardware Included with VCM-DS Family:

Instruction sheet, (1) Trough assembly, (2) Door assembly, (2) Spools, (4) 1/2-20 x 1.0 in hex head bolt, (4) 1/2-20 hex nut, (4) Flat washer

Hardware Included with VCM-SS Family:

Instruction sheet, (1) Trough assembly, (1) Door assembly, (2) Spools, (4) 1/2-20 x 1.0 in hex head bolt, (4) 1/2-20 hex nut, (4) Flat washer

Hardware Included with HCM Family:

Instruction sheet, (1) Trough assembly, (1) Cover assembly, (4) 12-24 x 1/2 in. screw

Racks and Cable Management

Cable Management Capacity Chart

40% VCM Fill

VCM Size (inch)	5EJ4 (UNC5)	6EJCM (UNC6)	1074D Power-SUM	1074E GigaSpeedXL	1095A GigaSpeedX10D Plenum/LSZH	2095A/3095A GigaSPEEDX10D	1295A GigaSPEEDX10D FTP	3295A GigaSPEEDX10D FTP LSZH
6	492	431	470	431	248	265	352	342
8	671	588	641	588	338	361	480	466
10	850	745	812	745	428	457	608	590
12	1029	901	983	901	518	553	736	714

20% VCM Fill

VCM Size (inch)	5EJ4 (UNC5)	6EJCM (UNC6)	1074D Power-SUM	1074E GigaSpeedXL	1095A GigaSpeedX10D Plenum/LSZH	2095A/3095A GigaSPEEDX10D	1295A GigaSPEEDX10D FTP	3295A GigaSPEEDX10D FTP LSZH
6	246	216	235	216	124	132	176	171
8	335	294	321	294	169	180	240	233
10	425	372	406	372	214	229	304	295
12	514	451	492	451	259	277	368	357

40% HCM Fill

HCM Size	5EJ4 (UNC5)	6EJCM (UNC6)	1074D Power-SUM	1074E GigaSpeedXL	1095A GigaSpeedX10D Plenum/LSZH	2095A/3095A GigaSPEEDX10D	1295A GigaSPEEDX10D FTP	3295A GigaSPEEDX10D FTP LSZH
1U	47	41	45	42	24	26	34	33
2U	125	109	119	109	63	67	89	87
3U	201	176	192	176	101	108	144	140

20% HCM Fill

HCM Size	5EJ4 (UNC5)	6EJCM (UNC6)	1074D Power-SUM	1074E GigaSpeedXL	1095A GigaSpeedX10D Plenum/LSZH	2095A/3095A GigaSPEEDX10D	1295A GigaSPEEDX10D FTP	3295A GigaSPEEDX10D FTP LSZH
1U	24	21	23	21	12	13	17	16
2U	62	55	60	55	31	33	45	43
3U	101	88	96	88	51	54	72	70

Power Strips

Introduction

CommScope Power Strips provide safe, cost-effective solutions for power distribution that runs to racks and cabinets.

Vertical power strips feature twenty receptacles, enabling dense equipment installs without the waste of valuable rack space.

Horizontal power strips are compact 1U rack-mountable units, designed for installation in either 1-in-relay or Standard EIA Rack configuration.

All CommScope power strips come equipped with convenient snap-in clips or reversible mounting ears, ensuring that both installation and move management are simple and quick. CommScope power strips are UL and c-UL listed 60950.

Features and Benefits:

Vertical Power Strips

- Vertical Mount: 66 in
- Available in 125 and 250 Volts
- Available in 15 or 20 Amp strips
- Standard or twist-lock style NEMA plugs
- NEMA 5-15R or IEC-320/C-13 receptacle
- Offers current surge protection and circuit breakers
- Includes brackets designed to specifically fit in CommScope racks and cabinets
- Easy access rack-mounting brackets provide flexibility in vertical placement of power strips

Horizontal Power Strips

- Horizontal Mount: 17 in (19 in rack)
- Available in 125 and 250 Volts
- Available in 15 or 20 Amp strips
- Standard or twist-lock style NEMA plugs
- NEMA 5-15R, 5-20R or IEC-320/C-13 receptacle
- Provides easy access for installation and removal in CommScope racks and cabinets
- Reversible mounting ears allow the unit to be mounted flush to a wall, offering a compact vertical mount solution if desired





Specification	Value
AC Rating Amps	15 or 20 Amps
VA Per Input	Vertical - 1875W (15*125V)/2500W (20*125V)/5000W (20*250V), Horizontal -1875W (15*125V)/2500W (20*125V)/5000W (20*250V)
AC Rating Volts	125 and 250 Volts
AC Rating Frequency	50/60 Hz
Over Current Protection	15 or 20 Amp Thermal Breaker (not available on all configurations)
Power Switch	None
Surge Protection	Available
Power Cable Wire Gauge	14/3 (15A) 12/3 (20A)
Power Cord Length	10 ft, IEC320 Units Have C-20 Power Inlet (cord not included)
Plug Type	NEMA 5-15R, NEMA 5-20R and C-13
Plug Style	Individual In-Line or Grouped (C-13)
No. of Receptacles On Face	20 - Vertical Mount, 8 - Horizontal Mount, 10 - Horizontal IEC320
Maximum Output Per Receptacle Socket	15A or 20A
Housing Configuration	Heavy Steel – Black Powder Coated
Certification/Agency Approvals	UL and C-UL Listed 60950
Chassis Dimensions (HxWxD)	Vertical -1.61 in x 1.61 in x 66 in, Horizontal -1.61 in x 1.61 in x 17 in or 1.61 in x 1.72 in x 17 in
Unit Weight	Vertical -12 lbs, Horizontal - 6 lbs

Power Strips







Plug Configurations

NEMA Straight-Blade Plug & Outlet

Amp	Volt	NEMA Straight-Blade Plug		NEMA Straight-Blade Outlet	
15	125	5-15P		5-15R	
20	125	5-20P		5-20R	

Twist-Lock Plug & Outlet

Amp	Volt	Twist-Lock Plug		Twist-Lock Outlet	
15	125	L5-15P		L5-15R	
20	125	L5-20P		L5-20R	

IEC Power Inlet & Outlet

Amp	Volt	IEC Power Inlet		IEC Power Outlet	
20/16*	125 or 250	C-20		C-13	

*Rating for CE Products

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Power Strips

Single Input Vertical Power Strips

NEMA Plug - NEMA Outlets – 125 Volt, 15 Amp with 20 NEMA 5-15R Outlets

Material ID	Catalog Number	Inlet Plug Type	Surge Protection	Circuit Breaker	Dimensions	Shipping Weight
760083600	PSV5-15SP-CBSP	Standard	Yes	Yes	1.6 in x 66 in x 1.6 in (41 mm x 1680 mm x 41 mm)	12 lbs/5.45 kg
760083618	PSV5-15SP-CBTP	Twist Lock	Yes	Yes	1.6 in x 66 in x 1.6 in (41 mm x 1680 mm x 41 mm)	12 lbs/5.45 kg
760083626	PSV5-15NP-CBSP	Standard	No	Yes	1.6 in x 66 in x 1.6 in (41 mm x 1680 mm x 41 mm)	12 lbs/5.45 kg
760083634	PSV5-15NP-CBTP	Twist Lock	No	Yes	1.6 in x 66 in x 1.6 in (41 mm x 1680 mm x 41 mm)	12 lbs/5.45 kg
760083642	PSV5-15NP-NBSP	Standard	No	No	1.2 in x 66 in x 1.3 in (29 mm x 1680 mm x 32 mm)	12 lbs/5.45 kg
760083659	PSV5-15NP-NBTP	Twist Lock	No	No	1.2 in x 66 in x 1.3 in (29 mm x 1680 mm x 32 mm)	12 lbs/5.45 kg

NEMA Plug - NEMA Outlets – 125 Volt, 20 Amp with 20 NEMA 5-15R Outlets

Material ID	Catalog Number	Inlet Plug Type	Surge Protection	Circuit Breaker	Dimensions	Shipping Weight
760083667	PSV5-20SP-CBSP	Standard	Yes	Yes	1.6 in x 66 in x 1.6 in (41 mm x 1680 mm x 41 mm)	12 lbs/5.45 kg
760083675	PSV5-20SP-CBTP	Twist Lock	Yes	Yes	1.6 in x 66 in x 1.6 in (41 mm x 1680 mm x 41 mm)	12 lbs/5.45 kg
760083683	PSV5-20NP-CBSP	Standard	No	Yes	1.6 in x 66 in x 1.6 in (41 mm x 1680 mm x 41 mm)	12 lbs/5.45 kg
760083691	PSV5-20NP-CBTP	Twist Lock	No	Yes	1.6 in x 66 in x 1.6 in (41 mm x 1680 mm x 41 mm)	12 lbs/5.45 kg
760083709	PSV5-20NP-NBSP	Standard	No	No	1.2 in x 66 in x 1.3 in (29 mm x 1680 mm x 32 mm)	12 lbs/5.45 kg
760083717	PSV5-20NP-NBTP	Twist Lock	No	No	1.2 in x 66 in x 1.3 in (29 mm x 1680 mm x 32 mm)	12 lbs/5.45 kg

IEC Plug - IEC Outlets – 125/250 Volt, 20 Amp with 20 IEC320 TYPE C-13 Outlets

Material ID	Catalog Number	Inlet Plug Type	Surge Protection	Circuit Breaker	Dimensions	Shipping Weight
760083733	PSV10-20NBC13	IEC320 Type C-20	No	No	1.6 in x 66 in x 1.6 in (41 mm x 1680 mm x 41 mm)	12 lbs/5.45 kg



PSV5-15SP-CBSP



PSV5-20NP-NBSP



PSV10-20 NBC13

Power Strips



Single Input Horizontal Power Strips

NEMA Plug - NEMA Outlets – 125 Volt, 15 Amp, 1 RMU with 8 NEMA 5-15R Outlets

Material ID	Catalog Number	Inlet Plug Type	Surge Protection	Circuit Breaker	Dimensions	Shipping Weight
760083758	PSH5-15SP-CBSP	Standard	Yes	Yes	19 in x 1 RMU x 1.6 in (41 mm)	6 lbs/2.73 kg
760083766	PSH5-15SP-CBTP	Twist Lock	Yes	Yes	19 in x 1 RMU x 1.6 in (41 mm)	6 lbs/2.73 kg
760083774	PSH5-15NP-CBSP	Standard	No	Yes	19 in x 1 RMU x 1.6 in (41 mm)	6 lbs/2.73 kg
760083782	PSH5-15NP-CBTP	Twist Lock	No	Yes	19 in x 1 RMU x 1.6 in (41 mm)	6 lbs/2.73 kg
760083790	PSH5-15NP-NBSP	Standard	No	No	19 in x 1 RMU x 1.6 in (41 mm)	6 lbs/2.73 kg
760083808	PSH5-15NP-NBTP	Twist Lock	No	No	19 in x 1 RMU x 1.6 in (41 mm)	6 lbs/2.73 kg

NEMA Plug - NEMA Outlets – 125 Volt, 20 Amp, 1 RMU with 8 NEMA 5-20R Outlets

Material ID	Catalog Number	Inlet Plug Type	Surge Protection	Circuit Breaker	Dimensions	Shipping Weight
760083816	PSH5-20SP-CBSP	Standard	Yes	Yes	19 in x 1 RMU x 1.6 in (41 mm)	6 lbs/2.73 kg
760083824	PSH5-20SP-CBTP	Twist Lock	Yes	Yes	19 in x 1 RMU x 1.6 in (41 mm)	6 lbs/2.73 kg
760083832	PSH5-20NP-CBSP	Standard	No	Yes	19 in x 1 RMU x 1.6 in (41 mm)	6 lbs/2.73 kg
760083840	PSH5-20NP-CBTP	Twist Lock	No	Yes	19 in x 1 RMU x 1.6 in (41 mm)	6 lbs/2.73 kg
760083857	PSH5-20NP-NBSP	Standard	No	No	19 in x 1 RMU x 1.6 in (41 mm)	6 lbs/2.73 kg
760083865	PSH5-20NP-NBTP	Twist Lock	No	No	19 in x 1 RMU x 1.6 in (41 mm)	6 lbs/2.73 kg

IEC Plug - IEC Outlets – 125/250 Volt, 20 Amp, 1 RMU with 8 IEC320 Type C-13 Outlets

Material ID	Catalog Number	Inlet Plug Type	Surge Protection	Circuit Breaker	Dimensions	Shipping Weight
760083881	PSH10-20NBC13	IEC320 Type C-20	No	No	19 in x 1 RMU x 1.6 in (41 mm)	6 lbs/2.73 kg



PSH5-20SP-CBSP

Power Strips

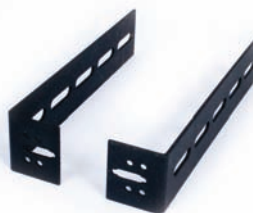
Mounting Accessories

Material ID	Catalog Number	Description	Dimensions	Shipping Weight
760083741	PSV-RKMTBK	Offset Rack-Mount Bracket Kit	8.4 in x 1.9 in x 1.9 in (213 mm x 48 mm x 48 mm)	3 lbs/1.36 kg
760095091*	PSV-CBMTBK	L-Bracket Cabinet-Mount Kit	7.0 in x 1.4 in x 1.5 in (178 mm x 36 mm x 38 mm)	3 lbs/1.36 kg

*Required for 600 Deep and 800 Deep Cabinets



PSV-RKMTBK



PSV-CBMTBK



Installed L-Bracket
Cabinet-Mount Kit

Wall Mount Cabinets

Introduction

Light and Heavy Duty Wall Mount Cabinets are available in 24-inch, 36-inch and 48-inch heights and feature standard EIA-310-E compliant mounting in a 24-inch deep enclosure for extended length equipment. The rear subpanel provides both 1-inch and 3-inch knockouts located at the top and bottom for easy wiring, installation and maintenance. The Wall Mount Cabinets can be purchased with solid or vented top and sides or with pre-mounted 120V, 110 CFM fans. Doors can be purchased with solid steel or tinted Plexi-glass for equipment visibility. Front and rear sections lock independently for added security.

Features and Benefits:

- Available in 24 in. (12RU), 36 in. (19RU), and 48 in. (26RU) heights
- Swing out feature facilitates front and rear access for quick changes and maintenance
- EIA-310-E Compliant
- Pre-mounted 12-24 Tapped Adjustable Rails, 19" EIA-310E Compliant
- Supplied with (20) 12-24 Equipment Mounting Screws.
- 4" rear sub-panel w/top & bottom cable access knock-outs
- Rear subpanel features cable knock-outs with top and bottom access
- Flush side panels: solid or vented
- Flush top Panels: solid, vented or pre-mounted with fans
- Locking front and rear compartments, keyed alike.
- Optional Pre-mounted Fans for Thermal Control.
- Cabinets ship fully assembled
- Material: Steel
 - Equipment Rails: 12 Gauge (.105 Thick), CRS
 - Subpanel: 14 Gauge (0.075 Thick), CRS
 - Cab Center Section: 16 Gauge (0.060 Thick), CRS
- Finish: Durable Epoxy Powder Coat Finish
- Designed for use in telecommunications and equipment rooms
- Removable and reversible door (Light Duty Series) with quick release pin and key lock

Light Duty Series

- Robust Fully Welded Steel Construction: 125 lb weight capacity
- Rounded Safety Edge-minimizes risk of exposure to sharp edges

Heavy Duty Series

- Robust Fully Welded Steel Construction: 300 lbs weight capacity
- Rugged 1" Tubular Steel Frame and HD Bullet enhances structural integrity
- Rear subpanel is removable for easy installation



Rounded Safety Edge



**Light Duty Wall Mount Cabinet
CW26-PVF-24**

Wall Mount Cabinets

Wall Mount Cabinets

Light Duty Wall Mount Cabinets

Material ID	Catalog Number	Description	H X W X D (cm)	Door	Sides	Top/Btm	Wt lbs/kg
760095729	CW26-PVV-24	Wall Mount Cabinet 19 in (Rack Mt) x 48 in (48.3 x 121.9)	48 x 23 x 24 (121.9 x 58.4 x 60.9)	Plex	Vent	Vent	75/34.0
760095737	CW26-PVF-24	Wall Mount Cabinet 19 in (Rack Mt) x 48 in (48.3 x 121.9)	48 x 23 x 24 (121.9 x 58.4 x 60.9)	Plex	Vent	2 Fan	75/34.0
760095745	CW26-PSS-24	Wall Mount Cabinet 19 in (Rack Mt) x 48 in (48.3 x 121.9)	48 x 23 x 24 (121.9 x 58.4 x 60.9)	Plex	Solid	Solid	75/34.0
760095752	CW26-SVV-24	Wall Mount Cabinet 19 in (Rack Mt) x 48 in (48.3 x 121.9)	48 x 23 x 24 (121.9 x 58.4 x 60.9)	Solid	Vent	Vent	75/34.0
760095760	CW26-SVF-24	Wall Mount Cabinet 19 in (Rack Mt) x 48 in (48.3 x 121.9)	48 x 23 x 24 (121.9 x 58.4 x 60.9)	Solid	Vent	2 Fan	75/34.0
760095778	CW26-SSS-24	Wall Mount Cabinet 19 in (Rack Mt) x 48 in (48.3 x 121.9)	48 x 23 x 24 (121.9 x 58.4 x 60.9)	Solid	Solid	Solid	75/34.0
760095786	CW19-PVV-24	Wall Mount Cabinet 19 in (Rack Mt) x 36 in (48.3 x 91.4)	36 x 23 x 24 (91.4 x 58.4 x 60.9)	Plex	Vent	Vent	65/29.5
760095794	CW19-PVF-24	Wall Mount Cabinet 19 in (Rack Mt) x 36 in (48.3 x 91.4)	36 x 23 x 24 (91.4 x 58.4 x 60.9)	Plex	Vent	2 Fan	65/29.5
760095802	CW19-PSS-24	Wall Mount Cabinet 19 in (Rack Mt) x 36 in (48.3 x 91.4)	36 x 23 x 24 (91.4 x 58.4 x 60.9)	Plex	Solid	Solid	65/29.5
760095810	CW19-SVV-24	Wall Mount Cabinet 19 in (Rack Mt) x 36 in (48.3 x 91.4)	36 x 23 x 24 (91.4 x 58.4 x 60.9)	Solid	Vent	Vent	65/29.5
760095828	CW19-SVF-24	Wall Mount Cabinet 19 in (Rack Mt) x 36 in (48.3 x 91.4)	36 x 23 x 24 (91.4 x 58.4 x 60.9)	Solid	Vent	2 Fan	65/29.5
760095836	CW19-SSS-24	Wall Mount Cabinet 19 in (Rack Mt) x 36 in (48.3 x 91.4)	36 x 23 x 24 (91.4 x 58.4 x 60.9)	Solid	Solid	Solid	65/29.5
760095844	CW12-PVV-24	Wall Mount Cabinet 19 in (Rack Mt) x 24 in (48.3 x 60.9)	24 x 23 x 24 (60.9 x 58.4 x 60.9)	Plex	Vent	Vent	55/24.9
760095851	CW12-PVF-24	Wall Mount Cabinet 19 in (Rack Mt) x 24 in (48.3 x 60.9)	24 x 23 x 24 (60.9 x 58.4 x 60.9)	Plex	Vent	2 Fan	55/24.9
760095869	CW12-PSS-24	Wall Mount Cabinet 19 in (Rack Mt) x 24 in (48.3 x 60.9)	24 x 23 x 24 (60.9 x 58.4 x 60.9)	Plex	Solid	Solid	55/24.9
760095877	CW12-SVV-24	Wall Mount Cabinet 19 in (Rack Mt) x 24 in (48.3 x 60.9)	24 x 23 x 24 (60.9 x 58.4 x 60.9)	Solid	Vent	Vent	55/24.9
760095885	CW12-SVF-24	Wall Mount Cabinet 19 in (Rack Mt) x 24 in (48.3 x 60.9)	24 x 23 x 24 (60.9 x 58.4 x 60.9)	Solid	Vent	2 Fan	55/24.9
760095893	CW12-SSS-24	Wall Mount Cabinet 19 in (Rack Mt) x 24 in (48.3 x 60.9)	24 x 23 x 24 (60.9 x 58.4 x 60.9)	Solid	Solid	Solid	55/24.9

Heavy Duty Wall Mount Cabinets

Material ID	Catalog Number	Description	H X W X D (cm)	Door	Sides	Top/Btm	Wt lbs/kg
760095901	CW26-PVV-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 48 in (48.3 x 121.9)	48 x 22 x 24 (121.9 x 55.9 x 60.9)	Plex	Vent	Vent	95/43.1
760095919	CW26-PVF-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 48 in (48.3 x 121.9)	48 x 22 x 24 (121.9 x 55.9 x 60.9)	Plex	Vent	2 Fan	95/43.1
760095927	CW26-PSS-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 48 in (48.3 x 121.9)	48 x 22 x 24 (121.9 x 55.9 x 60.9)	Plex	Solid	Solid	95/43.1
760095935	CW26-SVV-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 48 in (48.3 x 121.9)	48 x 22 x 24 (121.9 x 55.9 x 60.9)	Solid	Vent	Vent	95/43.1
760095943	CW26-SVF-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 48 in (48.3 x 121.9)	48 x 22 x 24 (121.9 x 55.9 x 60.9)	Solid	Vent	2 Fan	95/43.1
760095950	CW26-SSS-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 48 in (48.3 x 121.9)	48 x 22 x 24 (121.9 x 55.9 x 60.9)	Solid	Solid	Solid	95/43.1
760095968	CW19-PVV-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 36 in (48.3 x 91.4)	36 x 22 x 24 (91.4 x 55.9 x 60.9)	Plex	Vent	Vent	85/38.6
760095976	CW19-PVF-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 36 in (48.3 x 91.4)	36 x 22 x 24 (91.4 x 55.9 x 60.9)	Plex	Vent	2 Fan	85/38.6
760095984	CW19-PSS-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 36 in (48.3 x 91.4)	36 x 22 x 24 (91.4 x 55.9 x 60.9)	Plex	Solid	Solid	85/38.6
760095992	CW19-SVV-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 36 in (48.3 x 91.4)	36 x 22 x 24 (91.4 x 55.9 x 60.9)	Solid	Vent	Vent	85/38.6
760096008	CW19-SVF-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 36 in (48.3 x 91.4)	36 x 22 x 24 (91.4 x 55.9 x 60.9)	Solid	Vent	2 Fan	85/38.6
760096016	CW19-SSS-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 36 in (48.3 x 91.4)	36 x 22 x 24 (91.4 x 55.9 x 60.9)	Solid	Solid	Solid	85/38.6
760096024	CW12-PVV-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 24 in (48.3 x 60.9)	24 x 22 x 24 (60.9 x 55.9 x 60.9)	Plex	Vent	Vent	75/34.0
760096032	CW12-PVF-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 24 in (48.3 x 60.9)	24 x 22 x 24 (60.9 x 55.9 x 60.9)	Plex	Vent	2 Fan	75/34.0
760096040	CW12-PSS-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 24 in (48.3 x 60.9)	24 x 22 x 24 (60.9 x 55.9 x 60.9)	Plex	Solid	Solid	75/34.0
760096057	CW12-SVV-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 24 in (48.3 x 60.9)	24 x 22 x 24 (60.9 x 55.9 x 60.9)	Solid	Vent	Vent	75/34.0
760096065	CW12-SVF-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 24 in (48.3 x 60.9)	24 x 22 x 24 (60.9 x 55.9 x 60.9)	Solid	Vent	2 Fan	75/34.0
760096073	CW12-SSS-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 24 in (48.3 x 60.9)	24 x 22 x 24 (60.9 x 55.9 x 60.9)	Solid	Solid	Solid	75/34.0

Wall Mount Cabinets

Wall Mount Cabinet Accessories

Wall Mount Cabinet Accessories

Material ID	Catalog Number	Description	Wt lbs/kg
760096081	CWFK1-120	Fan Kit, 1 Fan, 120VAC	3/1.3
760096099	CWFK2-120	Fan Kit, 2 Fans, 120VAC	6/2.7
760096107	CWLNFK1-120	Low Noise Fan Kit, 1 Fan, 120VAC	3/1.3
760096115	CWLNFK2-120	Low Noise Fan Kit, 2 Fans, 120VAC	6/2.7
760096123	CWFK2-220	Fan Kit, 2 Fans, 220VAC	6/2.7
760096131	CWFK2-48	Fan Kit, 2 Fans, 48VAC	6/2.7
760096149	CWFF	NEMA Fan Filter, 1 pc	1/0.4
760096156	CWTFC	Electronic Thermostat Fan Control	2/0.9
760100214	CWVRK-24	Wall Mount Cabinet, Equipment Vertical Rail Kit, 24"	6/2.7
760100222	CWVRK-36	Wall Mount Cabinet, Equipment Vertical Rail Kit, 36"	7/3.1
760100230	CWVRK-48	Wall Mount Cabinet, Equipment Vertical Rail Kit, 48"	8/3.6

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Server Cabinets

Introduction

Server Cabinets

CommScope Server Cabinets are multi-practice 19 in and/or ETSI enclosures ideal to house and protect computer servers and other mission-critical active equipment. Superior design features provide three point cable entry and easy cable access, even when two cabinets are bayed together. Easy-to-remove cladding means less labor while still ensuring security with internally lockable side panels and locking door latches that produce a 360 degree secure enclosure. Inter-cabinet patching is made possible by internal uprights set back into the cabinet.

X-Frame technology reduces installation time and provides instant access for cable installation. Cable can be pulled into position first, before the cabinet is located and fixed onto tiles, creating maximum “elbow room” to work and draw cable into place. Fully moveable 19 in mountable uprights (front and rear) allow for maximum flexibility.

Door ventilation design, with a 61.25% open area, supports hot and cold corridor air flow for superior thermal management.

CommScope Cabinets’ physical strength, thermal and security management solutions, combined with its depth options, make it an ideal enclosure for even the largest servers.



Cabinet with Vented Door

Features and Benefits:

- Supplied fully assembled
- 1000 kg/2200 lb capacity
- Patented X-Frame technology offers easy cable and equipment installation
- Accommodates all major servers on the market
- Cable management space is superior for 10 Gbps cable
- Future-proofed—can accommodate 19 in and ETSI equipment
- Unique door vent pattern provides excellent thermal management—61.25% open area
- Graded security to highest levels
- Application specific accessories
- Server cabinets come standard with RU markings
- 2 width options - 600 mm and 800 mm
- 2 depth options - 800 mm and 1000 mm
- 4 door options - glass, vented, solid and split doors

Standards

IEC 297-2
DIN 41494, part 7
DIN 41491, part 1 (mounting dimensions)
EN 60950
VDE 0100

Flat Packaging Server Cabinets

CommScope Server Cabinets are available in flat packaging. Cabinets packaged in a flat pack configuration requires less floor space at a customer site and decreases transportation damage using minimal packaging that can be easily flattened for reduced clutter at the jobsite.

Features and Benefits of Flat Pack:

- Thoroughly tested package design affords excellent protection to the cabinet throughout transport even into remote areas
- Requires about half the cubic volume as the fully assembled cabinet, thus decreasing transportation damage and associated carbon footprint
- Can be stacked four or five cabinets high, taking up less floor space when stored at customer site awaiting installation
- Excellent option for sites having limited door clearance and/or no freight elevators
- Minimal packaging
 - Requires only one skid for two cabinets
 - Can be easily flattened for reduced clutter at the jobsite
 - Reduces packaging removal cost
 - Lessens environmental impact
- Cabinets can be easily assembled with standard hand tools using easy to follow illustrated instruction

Server Cabinets

Server Cabinet Builds with Glass Vented Front Doors and Double Vented Rear Doors

Material ID	Catalog Number	Description	Front Door	Rear Door
760078089	SC 42U 6X8 GVF DVR WS	Server Cabinet 42U 600 x 800, Vented Glass Front, Double Vented Rear	Glass, Vented	Steel, Vented Double
760078097	SC 42U 6X8 GVF DVR WoS	Server Cabinet 42U 600 x 800, Vented Glass Front, Double Vented Rear, Additional Bay	Glass, Vented	Steel, Vented Double
760078105	SC 42U 6X10 GVF DVR WS	Server Cabinet 42U 600 x 1000, Vented Glass Front, Double Vented Rear	Glass, Vented	Steel, Vented Double
760078113	SC 42U 6X10 GVF DVR WoS	Server Cabinet 42U 600 x 1000, Vented Glass Front, Double Vented Rear, Additional Bay	Glass, Vented	Steel, Vented Double
760078121	SC 42U 8X8 GVF DVR WS	Server Cabinet 42U 800 x 800, Vented Glass Front, Double Vented Rear	Glass, Vented	Steel, Vented Double
760078139	SC 42U 8X8 GVF DVR WoS	Server Cabinet 42U 800 x 800, Vented Glass Front, Double Vented Rear, Additional Bay	Glass, Vented	Steel, Vented Double
760078147	SC 42U 8X10 GVF DVR WS	Server Cabinet 42U 800 x 1000, Vented Glass Front, Double Vented Rear	Glass, Vented	Steel, Vented Double
760078154	SC 42U 8X10 GVF DVR WoS	Server Cabinet 42U 800 x 1000, Vented Glass Front, Double Vented Rear, Additional Bay	Glass, Vented	Steel, Vented Double

Products available in Flat Packaging - Please add **FP** to Material ID and Catalog Number

Hardware Included with each Server Cabinet:

- (4) Earthing squids (fitted), All necessary attachment points (fitted), M6 primary earthing point (fitted), (40) Earthing cage nuts,
- (40) M6 x 18 cheese head pozi front panel screws, (40) Plastic cup washers, (4) Adjustable feet

Hardware Included with Additional Bay - 1 Baying Kit:

- (8) Baying brackets, (4) M6 screws, (4) M6 nuts

WS = Cabinet Frame, Side Panels, Vented Top Panel and Associated Hardware

WoS = Cabinet Frame, Vented Top Panel and Associated Hardware. Does not include side panels.



Cabinet with Vented Door

Material ID	Catalog Number	Description	Front Door	Rear Door
760099630	SC 45U 6X8 GVF DVR WS	Server Cabinet 45U 600 x 800, Vented Glass Front, Double Vented Rear	Glass, Vented	Steel, Vented Double
760099648	SC 45U 6X8 GVF DVR WoS	Server Cabinet 45U 600 x 800, Vented Glass Front, Double Vented Rear, Additional Bay	Glass, Vented	Steel, Vented Double
760099655	SC 45U 6X10 GVF DVR WS	Server Cabinet 45U 600 x 1000, Vented Glass Front, Double Vented Rear	Glass, Vented	Steel, Vented Double
760099663	SC 45U 6X10 GVF DVR WoS	Server Cabinet 45U 600 x 1000, Vented Glass Front, Double Vented Rear, Additional Bay	Glass, Vented	Steel, Vented Double
760099671	SC 45U 8X8 GVF DVR WS	Server Cabinet 45U 800 x 800, Vented Glass Front, Double Vented Rear	Glass, Vented	Steel, Vented Double
760099689	SC 45U 8X8 GVF DVR WoS	Server Cabinet 45U 800 x 800, Vented Glass Front, Double Vented Rear, Additional Bay	Glass, Vented	Steel, Vented Double
760099697	SC 45U 8X10 GVF DVR WS	Server Cabinet 45U 800 x 1000, Vented Glass Front, Double Vented Rear	Glass, Vented	Steel, Vented Double
760099705	SC 45U 8X10 GVF DVR WoS	Server Cabinet 45U 800 x 1000, Vented Glass Front, Double Vented Rear, Additional Bay	Glass, Vented	Steel, Vented Double

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Server Cabinets



Server Cabinet Builds with Glass Vented Front Doors and Double Vented Rear Doors

Material ID	Catalog Number	Description	Front Door	Rear Door
760093856	SC 47U 6X8 GVF DVR WS	Server Cabinet 47U 600 x 800, Vented Glass Front, Double Vented Rear	Glass, Vented	Steel, Vented
760093864	SC 47U 6X8 GVF DVR WoS	Server Cabinet 47U 600 x 800, Vented Glass Front, Double Vented Rear, Additional Bay	Glass, Vented	Steel, Vented
760093872	SC 47U 6X10 GVF DVR WS	Server Cabinet 47U 600 x 1000, Vented Glass Front, Double Vented Rear	Glass, Vented	Steel, Vented
760093880	SC 42U 6X10 GVF DVR WoS	Server Cabinet 47U 600 x 1000, Vented Glass Front, Double Vented Rear, Additional Bay	Glass, Vented	Steel, Vented
760093898	SC 47U 8X8 GVF DVR WS	Server Cabinet 47U 800 x 800, Vented Glass Front, Double Vented Rear	Glass, Vented	Steel, Vented
760093906	SC 47U 8X8 GVF DVR WoS	Server Cabinet 47U 800 x 800, Vented Glass Front, Double Vented Rear, Additional Bay	Glass, Vented	Steel, Vented
760093914	SC 47U 8X10 GVF DVR WS	Server Cabinet 47U 800 x 1000, Vented Glass Front, Double Vented Rear	Glass, Vented	Steel, Vented
760093922	SC 47U 8X10 GVF DVR WoS	Server Cabinet 47U 800 x 1000, Vented Glass Front, Double Vented Rear, Additional Bay	Glass, Vented	Steel, Vented

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Server Cabinet Builds with Glass Vented Front Doors and Single Vented Rear Doors

Material ID	Catalog Number	Description	Front Door	Rear Door
760077925	SC 42U 6X8 GVF SVR WS	Server Cabinet 42U 600 x 800, Vented Glass Front, Single Vented Rear	Glass, Vented	Steel, Vented
760077933	SC 42U 6X8 GVF SVR WoS	Server Cabinet 42U 600 x 800, Vented Glass Front, Single Vented Rear, Additional Bay	Glass, Vented	Steel, Vented
760077941	SC 42U 6X10 GVF SVR WS	Server Cabinet 42U 600 x 1000, Vented Glass Front, Single Vented Rear	Glass, Vented	Steel, Vented
760077958	SC 42U 6X10 GVF SVR WoS	Server Cabinet 42U 600 x 1000, Vented Glass Front, Single Vented Rear, Additional Bay	Glass, Vented	Steel, Vented
760077966	SC 42U 8X8 GVF SVR WS	Server Cabinet 42U 800 x 800, Vented Glass Front, Single Vented Rear	Glass, Vented	Steel, Vented
760077974	SC 42U 8X8 GVF SVR WoS	Server Cabinet 42U 800 x 800, Vented Glass Front, Single Vented Rear, Additional Bay	Glass, Vented	Steel, Vented
760077982	SC 42U 8X10 GVF SVR WS	Server Cabinet 42U 800 x 1000, Vented Glass Front, Single Vented Rear	Glass, Vented	Steel, Vented
760077990	SC 42U 8X10 GVF SVR WoS	Server Cabinet 42U 800 x 1000, Vented Glass Front, Single Vented Rear, Additional Bay	Glass, Vented	Steel, Vented

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Material ID	Catalog Number	Description	Front Door	Rear Door
760099796	SC 45U 6X8 GVF SVR WS	Server Cabinet 45U 600 x 800, Vented Glass Front, Single Vented Rear	Glass, Vented	Steel, Vented
760099804	SC 45U 6X8 GVF SVR WoS	Server Cabinet 45U 600 x 800, Vented Glass Front, Single Vented Rear, Additional Bay	Glass, Vented	Steel, Vented
760099812	SC 45U 6X10 GVF SVR WS	Server Cabinet 45U 600 x 1000, Vented Glass Front, Single Vented Rear	Glass, Vented	Steel, Vented
760099820	SC 45U 6X10 GVF SVR WoS	Server Cabinet 45U 600 x 1000, Vented Glass Front, Single Vented Rear, Additional Bay	Glass, Vented	Steel, Vented
760099838	SC 45U 8X8 GVF SVR WS	Server Cabinet 45U 800 x 800, Vented Glass Front, Single Vented Rear	Glass, Vented	Steel, Vented
760099846	SC 45U 8X8 GVF SVR WoS	Server Cabinet 45U 800 x 800, Vented Glass Front, Single Vented Rear, Additional Bay	Glass, Vented	Steel, Vented
760099853	SC 45U 8X10 GVF SVR WS	Server Cabinet 45U 800 x 1000, Vented Glass Front, Single Vented Rear	Glass, Vented	Steel, Vented
760099861	SC 45U 8X10 GVF SVR WoS	Server Cabinet 45U 800 x 1000, Vented Glass Front, Single Vented Rear, Additional Bay	Glass, Vented	Steel, Vented

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Server Cabinets



Server Cabinet Builds with Glass Vented Front Doors and Single Vented Rear Doors

Material ID	Catalog Number	Description	Front Door	Rear Door
760093690	SC 47U 6X8 GVF SVR WS	Server Cabinet 47U 600 x 800, Vented Glass Front, Single Vented Rear	Glass, Vented	Steel, Vented
760093708	SC 47U 6X8 GVF SVR WoS	Server Cabinet 47U 600 x 800, Vented Glass Front, Single Vented Rear, Additional Bay	Glass, Vented	Steel, Vented
760093716	SC 47U 6X10 GVF SVR WS	Server Cabinet 47U 600 x 1000, Vented Glass Front, Single Vented Rear	Glass, Vented	Steel, Vented
760093724	SC 47U 6X10 GVF SVR WoS	Server Cabinet 47U 600 x 1000, Vented Glass Front, Single Vented Rear, Additional Bay	Glass, Vented	Steel, Vented
760093732	SC 47U 8X8 GVF SVR WS	Server Cabinet 47U 800 x 800, Vented Glass Front, Single Vented Rear	Glass, Vented	Steel, Vented
760093740	SC 47U 8X8 GVF SVR WoS	Server Cabinet 47U 800 x 800, Vented Glass Front, Single Vented Rear, Additional Bay	Glass, Vented	Steel, Vented
760093757	SC 47U 8X10 GVF SVR WS	Server Cabinet 47U 800 x 1000, Vented Glass Front, Single Vented Rear	Glass, Vented	Steel, Vented
760093765	SC 47U 8X10 GVF SVR WoS	Server Cabinet 47U 800 x 1000, Vented Glass Front, Single Vented Rear, Additional Bay	Glass, Vented	Steel, Vented

Products available in Flat Packaging - Please add **FP** to Material ID and Catalog Number

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Server Cabinets

Server Cabinet Builds with Steel Vented Front Doors and Double Vented Rear Doors

Material ID	Catalog Number	Description	Front Door	Rear Door
760078162	SC 42U 6X8 SVF DVR WS	Server Cabinet 42U 600 x 800, Vented Steel Front, Double Vented Rear	Steel, Vented	Steel, Vented Double
760078170	SC 42U 6X8 SVF DVR WoS	Server Cabinet 42U 600 x 800, Vented Steel Front, Double Vented Rear, Additional Bay	Steel, Vented	Steel, Vented Double
760078188	SC 42U 6X10 SVF DVR WS	Server Cabinet 42U 600 x 1000, Vented Steel Front, Double Vented Rear	Steel, Vented	Steel, Vented Double
760078196	SC 42U 6X10 SVF DVR WoS	Server Cabinet 42U 600 x 1000, Vented Steel Front, Double Vented Rear, Additional Bay	Steel, Vented	Steel, Vented Double
760078204	SC 42U 8X8 SVF DVR WS	Server Cabinet 42U 800 x 800, Vented Steel Front, Double Vented Rear	Steel, Vented	Steel, Vented Double
760078212	SC 42U 8X8 SVF DVR WoS	Server Cabinet 42U 800 x 800, Vented Steel Front, Double Vented Rear, Additional Bay	Steel, Vented	Steel, Vented Double
760078220	SC 42U 8X10 SVF DVR WS	Server Cabinet 42U 800 x 1000, Vented Steel Front, Double Vented Rear	Steel, Vented	Steel, Vented Double
760078238	SC 42U 8X10 SVF DVR WoS	Server Cabinet 42U 800 x 1000, Vented Steel Front, Double Vented Rear, Additional Bay	Steel, Vented	Steel, Vented Double

Products available in Flat Packaging - Please add **FP** to Material ID and Catalog Number

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Cabinet with Vented Door



Cabinet with Steel Door

Material ID	Catalog Number	Description	Front Door	Rear Door
760099713	SC 45U 6X8 SVF DVR WS	Server Cabinet 45U 600 x 800, Vented Steel Front, Double Vented Rear	Steel, Vented	Steel, Vented Double
760099721	SC 45U 6X8 SVF DVR WoS	Server Cabinet 45U 600 x 800, Vented Steel Front, Double Vented Rear, Additional Bay	Steel, Vented	Steel, Vented Double
760099739	SC 45U 6X10 SVF DVR WS	Server Cabinet 45U 600 x 1000, Vented Steel Front, Double Vented Rear	Steel, Vented	Steel, Vented Double
760099747	SC 45U 6X10 SVF DVR WoS	Server Cabinet 45U 600 x 1000, Vented Steel Front, Double Vented Rear, Additional Bay	Steel, Vented	Steel, Vented Double
760099754	SC 45U 8X8 SVF DVR WS	Server Cabinet 45U 800 x 800, Vented Steel Front, Double Vented Rear	Steel, Vented	Steel, Vented Double
760099762	SC 45U 8X8 SVF DVR WoS	Server Cabinet 45U 800 x 800, Vented Steel Front, Double Vented Rear, Additional Bay	Steel, Vented	Steel, Vented Double
760099770	SC 45U 8X10 SVF DVR WS	Server Cabinet 45U 800 x 1000, Vented Steel Front, Double Vented Rear	Steel, Vented	Steel, Vented Double
760099788	SC 45U 8X10 SVF DVR WoS	Server Cabinet 45U 800 x 1000, Vented Steel Front, Double Vented Rear, Additional Bay	Steel, Vented	Steel, Vented Double

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WoS = Cabinet Frame, Vented Top Panel and Associated Hardware. Does not include side panels.

Server Cabinets



Server Cabinet Builds with Steel Vented Front Doors and Double Vented Rear Doors

Material ID	Catalog Number	Description	Front Door	Rear Door
760093930	SC 47U 6X8 SVF DVR WS	Server Cabinet 47U 600 x 800, Vented Steel Front, Double Vented Rear	Steel, Vented	Steel, Vented
760093948	SC 47U 6X8 SVF DVR WoS	Server Cabinet 47U 600 x 800, Vented Steel Front, Double Vented Rear, Additional Bay	Steel, Vented	Steel, Vented
760093955	SC 47U 6X10 SVF DVR WS	Server Cabinet 47U 600 x 1000, Vented Steel Front, Double Vented Rear	Steel, Vented	Steel, Vented
760093963	SC 47U 6X10 SVF DVR WoS	Server Cabinet 47U 600 x 1000, Vented Steel Front, Double Vented Rear, Additional Bay	Steel, Vented	Steel, Vented
760093971	SC 47U 8X8 SVF DVR WS	Server Cabinet 47U 800 x 800, Vented Steel Front, Double Vented Rear	Steel, Vented	Steel, Vented
760093989	SC 47U 8X8 SVF DVR WoS	Server Cabinet 47U 800 x 800, Vented Steel Front, Double Vented Rear, Additional Bay	Steel, Vented	Steel, Vented
760093997	SC 47U 8X10 SVF DVR WS	Server Cabinet 47U 800 x 1000, Vented Steel Front, Double Vented Rear	Steel, Vented	Steel, Vented
760094003	SC 47U 8X10 SVF DVR WoS	Server Cabinet 47U 800 x 1000, Vented Steel Front, Double Vented Rear, Additional Bay	Steel, Vented	Steel, Vented

Products available in Flat Packaging - Please add **FP** to Material ID and Catalog Number

WS = Cabinet Frame, Side Panels, Vented Top Panel and Associated Hardware

WoS = Cabinet Frame, Vented Top Panel and Associated Hardware. Does not include side panels.

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Server Cabinets

Server Cabinet Builds with Steel Vented Front Doors and Single Vented Rear Doors

Material ID	Catalog Number	Description	Front Door	Rear Door
760078006	SC 42U 6X8 SVF SVR WS	Server Cabinet 42U 600 x 800, Vented Steel Front, Single Vented Rear	Steel, Vented	Steel, Vented
760078014	SC 42U 6X8 SVF SVR WoS	Server Cabinet 42U 600 x 800, Vented Steel Front, Single Vented Rear, Additional Bay	Steel, Vented	Steel, Vented
760078022	SC 42U 6X10 SVF SVR WS	Server Cabinet 42U 600 x 1000, Vented Steel Front, Single Vented Rear	Steel, Vented	Steel, Vented
760078030	SC 42U 6X10 SVF SVR WoS	Server Cabinet 42U 600 x 1000, Vented Steel Front, Single Vented Rear, Additional Bay	Steel, Vented	Steel, Vented
760078048	SC 42U 8X8 SVF SVR WS	Server Cabinet 42U 800 x 800, Vented Steel Front, Single Vented Rear	Steel, Vented	Steel, Vented
760078055	SC 42U 8X8 SVF SVR WoS	Server Cabinet 42U 800 x 800, Vented Steel Front, Single Vented Rear, Additional Bay	Steel, Vented	Steel, Vented
760078063	SC 42U 8X10 SVF SVR WS	Server Cabinet 42U 800 x 1000, Vented Steel Front, Single Vented Rear	Steel, Vented	Steel, Vented
760078071	SC 42U 8X10 SVF SVR WoS	Server Cabinet 42U 800 x 1000, Vented Steel Front, Single Vented Rear, Additional Bay	Steel, Vented	Steel, Vented

Products available in Flat Packaging - Please add **FP** to Material ID and Catalog Number

WS = Cabinet Frame, Side Panels, Vented Top Panel and Associated Hardware

WoS = Cabinet Frame, Vented Top Panel and Associated Hardware. Does not include side panels.



X-Frame Top View



X-Frame Bottom View

Material ID	Catalog Number	Description	Front Door	Rear Door
760099879	SC 45U 6X8 SVF SVR WS	Server Cabinet 45U 600 x 800, Vented Steel Front, Single Vented Rear	Steel, Vented	Steel, Vented
760099867	SC 45U 6X8 SVF SVR WoS	Server Cabinet 45U 600 x 800, Vented Steel Front, Single Vented Rear, Additional Bay	Steel, Vented	Steel, Vented
760099895	SC 45U 6X10 SVF SVR WS	Server Cabinet 45U 600 x 1000, Vented Steel Front, Single Vented Rear	Steel, Vented	Steel, Vented
760099903	SC 45U 6X10 SVF SVR WoS	Server Cabinet 45U 600 x 1000, Vented Steel Front, Single Vented Rear, Additional Bay	Steel, Vented	Steel, Vented
760099911	SC 45U 8X8 SVF SVR WS	Server Cabinet 45U 800 x 800, Vented Steel Front, Single Vented Rear	Steel, Vented	Steel, Vented
760099929	SC 45U 8X8 SVF SVR WoS	Server Cabinet 45U 800 x 800, Vented Steel Front, Single Vented Rear, Additional Bay	Steel, Vented	Steel, Vented
760099937	SC 45U 8X10 SVF SVR WS	Server Cabinet 45U 800 x 1000, Vented Steel Front, Single Vented Rear	Steel, Vented	Steel, Vented
760099945	SC 45U 8X10 SVF SVR WoS	Server Cabinet 45U 800 x 1000, Vented Steel Front, Single Vented Rear, Additional Bay	Steel, Vented	Steel, Vented

WS = Cabinet Frame, Side Panels, Vented Top Panel and Associated Hardware

WoS = Cabinet Frame, Vented Top Panel and Associated Hardware. Does not include side panels.

Server Cabinets

Server Cabinet Builds with Steel Vented Front Doors and Single Vented Rear Doors

Material ID	Catalog Number	Description	Front Door	Rear Door
760093773	SC 47U 6X8 SVF SVR WS	Server Cabinet 47U 600 x 800, Vented Steel Front, Single Vented Rear	Steel, Vented	Steel, Vented
760093781	SC 47U 6X8 SVF SVR WoS	Server Cabinet 47U 600 x 800, Vented Steel Front, Single Vented Rear, Additional Bay	Steel, Vented	Steel, Vented
760093799	SC 47U 6X10 SVF SVR WS	Server Cabinet 47U 600 x 1000, Vented Steel Front, Single Vented Rear	Steel, Vented	Steel, Vented
760093807	SC 47U 6X10 SVF SVR WoS	Server Cabinet 47U 600 x 1000, Vented Steel Front, Single Vented Rear, Additional Bay	Steel, Vented	Steel, Vented
760093815	SC 47U 8X8 SVF SVR WS	Server Cabinet 47U 800 x 800, Vented Steel Front, Single Vented Rear	Steel, Vented	Steel, Vented
760093823	SC 47U 8X8 SVF SVR WoS	Server Cabinet 47U 800 x 800, Vented Steel Front, Single Vented Rear, Additional Bay	Steel, Vented	Steel, Vented
760093831	SC 47U 8X10 SVF SVR WS	Server Cabinet 47U 800 x 1000, Vented Steel Front, Single Vented Rear	Steel, Vented	Steel, Vented
760093849	SC 47U 8X10 SVF SVR WoS	Server Cabinet 47U 800 x 1000, Vented Steel Front, Single Vented Rear, Additional Bay	Steel, Vented	Steel, Vented

Products available in Flat Packaging - Please add **FP** to Material ID and Catalog Number

WS = Cabinet Frame, Side Panels, Vented Top Panel and Associated Hardware

WoS = Cabinet Frame, Vented Top Panel and Associated Hardware. Does not include side panels.

Server Cabinets

Accessories

Frames

Material ID	Catalog Number	Description
760078246	SC 42U 6X8 FRAME	Server Cabinet Frame 42U 600 x 800
760078253	SC 42U 6X10 FRAME	Server Cabinet Frame 42U 600 x 1000
760078261	SC 42U 8X8 FRAME	Server Cabinet Frame 42U 800 x 800
760078279	SC 42U 8X10 FRAME	Server Cabinet Frame 42U 800 x 1000
760101170	SC 45U 6X8 FRAME	Server Cabinet Frame 45U 600 x 800
760101188	SC 45U 6X10 FRAME	Server Cabinet Frame 45U 600 x 1000
760101196	SC 45U 8X8 FRAME	Server Cabinet Frame 45U 800 x 800
760101204	SC 45U 8X10 FRAME	Server Cabinet Frame 45U 800 x 1000
760098640	SC 47U 6X8 FRAME	Server Cabinet Frame 47U 600 x 800
760098657	SC 47U 6X10 FRAME	Server Cabinet Frame 47U 600 x 1000
760098665	SC 47U 8X8 FRAME	Server Cabinet Frame 47U 800 x 800
760098673	SC 47U 8X10 FRAME	Server Cabinet Frame 47U 800 x 1000

200mm Extensions

Material ID	Catalog Number	Description
760091140	EXTEN CAB 42U X 600	200mm Extension Frame 42U x 600 Wide
760091157	EXTEN CAB 42U X 800	200mm Extension Frame 42U x 800 Wide
760107045	EXTEN CAB 45U X 600	200mm Extension Frame 45U x 600 Wide
760107052	EXTEN CAB 45U X 800	200mm Extension Frame 45U x 800 Wide
760091165	EXTEN CAB 47U X 600	200mm Extension Frame 47U x 600 Wide
760091173	EXTEN CAB 47U X 800	200mm Extension Frame 47U x 800 Wide



200mm Extension

Cable Management Modules

Material ID	Catalog Number	Description
760096560	CM 42U 200X1000 LH WoD	42U x 200 Wide x 1000 Deep LH Module No Doors
760102228	CM 42U 200X1000 RH WoD	42U x 200 Wide x 1000 Deep RH Module No Doors
760102236	CM 42U 200X1000 C WoD	42U x 200 Wide x 1000 Deep Center Module No Doors
760096552	CM 42U 200X1000 LH WD	42U x 200 Wide x 1000 Deep LH Cable End Module With Doors
760101279	CM 42U 200X1000 RH WD	42U x 200 Wide x 1000 Deep RH Cable End Module With Doors
760101378	CM 42U 200X1000 C WD	42U x 200 Wide x 1000 Deep Cable Center Module With Doors
760100099	CM 45U 162X1000 LH WD	45U x 162 Wide x 1000 Deep LH Cable End Module with Doors
760101113	CM 45U 162X1000 RH WD	45U x 162 Wide x 1000 Deep RH Cable End Module with Doors
760100107	CM 45U 162X1000 C WD	45U x 162 Wide x 1000 Deep Cable Center Module with Doors



Cable Management Module

Server Cabinets



Accessories

Front and Rear Doors

Material ID	Catalog Number	Description
760079053	DR VGL 42U 600 3PL	42U x 600 Vented Glass Door - 3 Point Lock
760079061	DR VGL 42U 800 3PL	42U x 800 Vented Glass Door - 3 Point Lock
760079079	DR GL 42U 600 3PL	42U x 600 Plain Glass Door - 3 Point Lock
760079087	DR GL 42U 800 3PL	42U x 800 Plain Glass Door - 3 Point Lock
760079095	DR VS 42U 600 3PL	42U x 600 Vented Steel Door - 3 Point Lock
760079103	DR VS 42U 800 3PL	42U x 800 Vented Steel Door - 3 Point Lock
760079111	DR ST 42U 600 3PL	42U x 600 Plain Steel Door - 3 Point Lock
760079129	DR ST 42U 800 3PL	42U x 800 Plain Steel Door - 3 Point Lock
760079137	DR VD 42U 600 2PL	42U x 600 Vented Double Door - 2 Point Lock
760079145	DR VD 42U 800 2PL	42U x 800 Vented Double Door - 2 Point Lock
760101758	DR GL 45U 600 1PL	45U x 600 Plain Glass Door - 1 Point Lock
760101766	DR GL 45U 800 1PL	45U x 800 Plain Glass Door - 1 Point Lock
760101774	DR ST 45U 600 1PL	45U x 600 Plain Steel Door - 1 Point Lock
760101782	DR ST 45U 800 1PL	45U x 800 Plain Steel Door - 1 Point Lock
760101790	DR VGL 45U 600 3PL	45U x 600 Vent Glass Door - 3 Point Lock
760101808	DR VGL 45U 800 3PL	45U x 800 Vent Glass Door - 3 Point Lock
760101816	DR GL 45U 600 3PL	45U x 600 Plain Glass Door - 3 Point Lock
760101824	DR GL 45U 800 3PL	45U x 800 Plain Glass Door - 3 Point Lock
760101832	DR VS 45U 600 3PL	45U x 600 Vent Steel Door - 3 Point Lock
760101840	DR VS 45U 800 3PL	45U x 800 Vent Steel Door - 3 Point Lock
760101857	DR ST 45U 600 3PL	45U x 600 Plain Steel Door - 3 Point Lock
760101865	DR ST 45U 800 3PL	45U x 800 Plain Steel Door - 3 Point Lock
760101873	DR VD 45U 600 2PL	45U x 600 Vent Double Door - 2 Point Lock
760101881	DR VD 45U 800 2PL	45U x 800 Vent Double Door - 2 Point Lock
760094177	DR GL 47U 600 1PL	47U x 600 Plain Glass Door - 1 Point Lock
760094185	DR GL 47U 800 1PL	47U x 800 Plain Glass Door - 1 Point Lock
760094193	DR ST 47U 600 1PL	47U x 600 Plain Steel Door - 1 Point Lock
760094201	DR ST 47U 800 1PL	47U x 800 Plain Steel Door - 1 Point Lock
760094219	DR VGL 47U 600 3PL	47U x 600 Vent Glass Door - 3 Point Lock
760094227	DR VGL 47U 800 3PL	47U x 800 Vent Glass Door - 3 Point Lock
760094235	DR GL 47U 600 3PL	47U x 600 Plain Glass Door - 3 Point Lock
760094243	DR GL 47U 800 3PL	47U x 800 Plain Glass Door - 3 Point Lock
760094250	DR VS 47U 600 3PL	47U x 600 Vent Steel Door - 3 Point Lock
760094268	DR VS 47U 800 3PL	47U x 800 Vent Steel Door - 3 Point Lock
760094276	DR ST 45U 600 3PL	47U x 600 Plain Steel Door - 3 Point Lock
760094284	DR ST 47U 800 3PL	47U x 800 Plain Steel Door - 3 Point Lock
760094292	DR VD 47U 600 2PL	47U x 600 Vent Double Door - 2 Point Lock
760094300	DR VD 47U 800 2PL	47U x 800 Vent Double Door - 2 Point Lock

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Accessories

Extended Rear Doors

Material ID	Catalog Number	Description
760103267		Extended Door, 42U x 600 Wide, LH Hinged-Vented
760096586		Extended Door, 42U x 800 Wide, LH Hinged-Vented
760103275		Extended Door, 45U x 600 Wide, LH Hinged-Vented
760103283		Extended Door, 45U x 800 Wide, LH Hinged-Vented



Extended Rear Door

Side Panels

Material ID	Catalog Number	Description
760079194	SP 42U 800D	Side Panel Kit of (2), 42U x 800
760079202	SP 42U 1000D	Side Panel Kit of (2), 42U x 1000
760101907	SP 45U 800D	Side Panel Kit of (2), 45U x 800
760101915	SP 45U 1000D	Side Panel Kit of (2), 45U x 1000
760094318	SP 47U 600D	Side Panel Kit of (2), 47U x 600
760094326	SP 47U 800D	Side Panel Kit of (2), 47U x 800
760094334	SP 47U 1000D	Side Panel Kit of (2), 47U x 1000

Divider Panels

Material ID	Catalog Number	Description
760079210	DP 42U 800D	Divider Panel, 42U x 800 Deep
760079228	DP 42U 1000D	Divider Panel, 42U x 1000 Deep
760102293	DP 45U 800D	Divider Panel, 42U x 800 Deep
760102301	DP 45U 1000D	Divider Panel, 42U x 1000 Deep
760082834	DP 47U 800D	Divider Panel, 47U x 800 Deep
760082859	DP 47U 1000D	Divider Panel, 47U x 1000 Deep

Top Panels

Material ID	Catalog Number	Description
760079244	TPV 6X8	600 Wide x 800 Deep Vent Top Panel
760079251	TPV 6X10	600 Wide x 1000 Deep Vent Top Panel
760079277	TPV 8X8	800 Wide x 800 Deep Vent Top Panel
760079285	TPV 8X10	800 Wide x 1000 Deep Vent Top Panel
760079301	TPP 6X8	600 Wide x 800 Deep Plain Top Panel
760079319	TPP 6X10	600 Wide x 1000 Deep Plain Top Panel
760079335	TPP 8X8	800 Wide x 800 Deep Plain Top Panel
760079343	TPP 8X10	800 Wide x 1000 Deep Plain Top Panel

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Adjustable Feet

Material ID	Catalog Number	Description
760079350	ADJ FT	Adjustable Feet - Pack of 4
760079376	BDCLAMP	Bolt Down Clamps - Pack of 4
760079384	ADJ FT SPACR	Adjustable Foot Spacer - Pack of 4



ADJ FT SPACR

Heavy Duty Castors

Material ID	Catalog Number	Description
760079392	HVY DTY CASTOR	Heavy Duty Castors - Server Frame Only - Pack of 4

Baying Kits

Material ID	Catalog Number	Description
760079400	BAYKIT	Baying Kit
760079426	HBT 800D	800 mm Deep Horizontal Baying Trim
760079434	HBT 1000D	1000 mm Deep Horizontal Baying Trim



BAYKIT

100 mm Plinths

Material ID	Catalog Number	Description
760080150	6X8 NV 100M PLINTH	600 x 800 Non Vented 100 mm Plinth
760080168	6X10 NV 100M PLINTH	600 x 1000 Non Vented 100 mm Plinth
760080184	8X8 NV 100M PLINTH	800 x 800 Non Vented 100 mm Plinth
760080192	8X10 NV 100M PLINTH	800 x 1000 Non Vented 100 mm Plinth



6x8 NV 100M PLINTH

Floor Tile Replacement Plinth

Material ID	Catalog Number	Description
760079491	6WR SDCB	600W Raft / Split Door Cross Beam
760079509	8WR SDCB	800W Raft / Split Door Cross Beam
760079517	6X8, 8X8 SC RAFT	600W x 800D and 800W x 800D Server Frame Raft System
760079525	6X10, 8X10 SC RAFT	600W x 1000D and 800W x 1000D Server Frame Raft System



6WR SDCB

Server Cabinets



Accessories

PDU Mounting Panel

Material ID	Catalog Number	Description
760079533	42U 150MM PDP	42U x 200 Cable / PDP Panel
760102285	45U 150MM PDP	45U x 200 Cable / PDP Panel
760082800	47U 150MM PDP	45U x 200 Cable / PDP Panel



6x8, 8x8 SC RAFT

Top Cable Management

Material ID	Catalog Number	Description
760079541	TOP SIDE BRUSH	Top Panel Side Brush Entry
760079558	TOP REAR BRUSH	Top Panel Rear Brush Entry

Filler Panels

Material ID	Catalog Number	Description
760079731	1U FP 12PK	1U x 19 in Front Panel - Pack of 12
760079749	2U FP 12PK	2U x 19 in Front Panel - Pack of 12
760079756	3U FP 6PK	3U x 19 in Front Panel - Pack of 6
760079764	4U FP 6PK	4U x 19 in Front Panel - Pack of 6
760079772	5U FP 6PK	5U x 19 in Front Panel - Pack of 6
760079780	10U FP 2PK	10U x 19 in Front Panel - Pack of 2
760079798	2U VFP 12PK	2U x 19 in Vented Front Panel - Pack of 12
760079806	4U VFP 6PK	4U x 19 in Vented Front Panel - Pack of 6
760079814	MPP Various Sizes	Multi Pack of Panels 2x1U, 1x2U, 1x3U, 1x4U and 1x5U

Quick Release Blank Panels

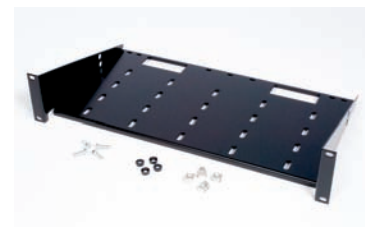
Material ID	Catalog Number	Description
760103473	QR-RKFP1U-B	Kit, 1U x 19 in. Blank Panel, Quick Release
760103481	QR-RKFP2U-B	Kit, 2U x 19 in. Blank Panel, Quick Release
760103499	QR-RKFP4U-B	Kit, 4U x 19 in. Blank Panel, Quick Release



Quick Release Blank Panel

Cantilever Shelves

Material ID	Catalog Number	Description
760079822	CNTLVR SHLF 255D	19 in Cantilever Shelf 255 Deep
760079830	CNTLVR SHLF 400D	19 in Cantilever Shelf 400 Deep



CNTLVR SHLF 255D

Heavy Duty Shelves

Material ID	Catalog Number	Description
760080010	472 HD SHLF 100 kg	19 in x 472 Heavy Duty Shelf - 100 kg/220 lb Capacity
760080028	627 HD SHLF 100 kg	19 in x 622 Heavy Duty Shelf - 100 kg/220 lb Capacity
760080036	754 HD SHLF 100 kg	19 in x 754 Heavy Duty Shelf - 100 kg/220 lb Capacity

Server Cabinets



Accessories

Sliding Shelves

Material ID	Catalog Number	Description
760080044	425 SLID SHLF 35 kg	19 in x 600 mm Sliding Shelf - 35 kg/77 lb Capacity
760080051	625 SLID SHLF 35 kg	19 in x 800 mm Sliding Shelf - 35 kg/77 lb Capacity
760080077	630 HD SLID SHLF 100 kg	19 in x 800 mm Heavy Duty Sliding Shelf - 100 kg/220 lb Capacity



630 HD SHLF 100 kg

Fan Trays

Material ID	Catalog Number	Description
760080200	SFT 230V	Standard Fan Tray 230V AC, 440 CFM
760080218	SFT 115V	Standard Fan Tray 115V AC, 440 CFM
760080226	LNFT 230V	Low Noise Fan Tray 230V AC, 204 CFM
760080234	LNFT 115V	Low Noise Fan Tray 115V AC, 204 CFM
760080242	MFT 90-250V	Monitored Fan Tray 90 - 250V AC, 508 CFM
760080259	LED CE22-13A UK	2M Mains Lead With LED CEE22 Plug And 13 Amp UK Plug
760080267	LED CE22-SCH GERFRN	2M Mains Lead With LED CEE22 Plug And Schuko (German/French) Plug
760080275	LED CE22-US	2M Mains Lead With LED CEE22 Plug And US Plug
760080283	REP-ADD SF 240V	Replacement / Additional Standard 240V Fan, 110 CFM
760080309	REP-ADD LNF 240V	Replacement / Additional Low Noise 240V Fan, 51 CFM
760080291	REP-ADD SF 115V	Replacement / Additional Standard 115V Fan
760080317	REP-ADD LNF 115V	Replacement / Additional Low Noise 115V Fan Power Leads



SFT 230V



REP-ADD SF 240V



LED CE22-13A UK

Grounding Accessories

Material ID	Catalog Number	Description
760080366	EARTH SQUID	Earthing Squid Kit - Pack of 4
760080374	10 ACC LEADS	Kit of 10 Accessory Earthing Leads



10 ACC LEADS

Magnetic Lights

Material ID	Catalog Number	Description
760080473	LIGHT SCH 230V	Light Schuko Version 230V
760080499	LIGHT US 115V	Light US Version 115V



M6 NUTS

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Accessories

Hardware

Material ID	Catalog Number	Description
760080531	M6X12 SCREWS 100PK	M6 x 12 Whitite Screws - Pack of 100
760080549	M6 NUTS 100PK	M6 Whitite Nuts - Pack of 100
760080556	PLST RET PINS 100PK	Plastic Retention Pins - Pack of 100
760080564	M6X18 PSCRW-WSH 100PK	M6 x 18 Pozi Drive Screws And Cup Washers - Pack of 100
760080572	M6X18 SSCRW-WSH 100PK	M6 x 18 Slotted Drive Screws And Cup Washers - Pack of 100
760080580	M6X18 PSCRW-WSH 1000PK	M6 x 18 Pozi Drive Screws And Cup Washers - Pack of 1000
760080598	M6 CN 100PK	M6 Caged Nuts - Pack of 100
760080606	M6 CN 1000PK	M6 Caged Nuts - Pack of 1000
760080614	M6 CNWEC 100PK	M6 Caged Nut With Earth Continuity - Pack of 100



PLST RET PINS



M6 CNWEC

Channel Window Moulding

Material ID	Catalog Number	Description
760081182	CWM 125 10PK	125 mm Channel Window Moulding - Pack of 10

125 mm Channel Cable Retention Bobbins

Material ID	Catalog Number	Description
760081190	CCRB 125 10PK	125 mm Channel Cable Retention Bobbins - Pack of 10

Chassis Supports

Material ID	Catalog Number	Description
760082735	370 CHS SPT SC 500D	370 mm Chassis Supports For Server Cabinets - 1 Pair
760082743	470 CHS SPT SC 600D	470 mm Chassis Supports For Server Cabinets - 1 Pair
760082750	570 CHS SPT SC 700D	570 mm Chassis Supports For Server Cabinets - 1 Pair
760082768	670 CHS SPT SC 800D	670 mm Chassis Supports For Server Cabinets - 1 Pair
760082776	770 CHS SPT SC	770 mm Chassis Supports For Server Cabinets - 1 Pair
760082784	870 CHS SPT SC	870 mm Chassis Supports For Server Cabinets - 1 Pair



370 CHS SPT SC 500D

Chassis Trays

Material ID	Catalog Number	Description
760079939	356 CHS TRAY SC	19 in x 356 Chassis Tray For Server Cabinets
760079947	456 CHS TRAY SC	19 in x 456 Chassis Tray For Server Cabinets
760079954	556 CHS TRAY SC	19 in x 556 Chassis Tray For Server Cabinets

Bottom Blanking Plates

Material ID	Catalog Number	Description
760096578		Cabinet Bottom Blanking Plate 600 mm x 1000 mm
760101501		Cabinet Bottom Blanking Plate 800 mm x 1000 mm
760101493		Cabinet Bottom Blanking Plate 600 mm x 800 mm
760101519		Cabinet Bottom Blanking Plate 800 mm x 800 mm



600 x 1000 Blanking Plate

Server Cabinets



Accessories

Fiber Management Duct Kits

Material ID	Catalog Number	Description
760103374	FM DUCT 42U	42U Fiber Management Duct Kit
760103366	FM DUCT 45U	45U Fiber Management Duct Kit
760103358	FM DUCT 47U	47U Fiber Management Duct Kit

18-inch Ladder Support Kit

Material ID	Catalog Number	Description
760104315	LR BRACKET 18IN	Kit, Bracket, Support 18-inch Ladder Rack

Ladder Extension Kit

Material ID	Catalog Number	Description
760104323	LR BRACKET EXT	Kit, Bracket, Extension, Ladder Rack Support

Front to Back Trough Kits

Material ID	Catalog Number	Description
760106997	F2B 162MM CM	Kit, Trough, Front to Back, 162W Cable Module
760104331	F2B 200MM CM	Kit, Trough, Front to Back, 200W Cable Module
760107003	F2B 250MM CM	Kit, Trough, Front to Back, 250.8W Cable Module
760107011	F2B 300MM CM	Kit, Trough, Front to Back, 300W Cable Module
760107029	F2B 352MM CM	Kit, Trough, Front to Back, 352.4W Cable Module

Side to Side Trough Kits

Material ID	Catalog Number	Description
760104349	S2S 600MM CAB	Kit, Trough, Side to Side, 600W Cabinet Top
760104356	S2S 800MM CAB	Kit, Trough, Side to Side, 800W Cabinet Top

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Network Cabinets



Introduction

Network Cabinets

More than “just a box,” CommScope Network Cabinets are a solution. Using patented X-Frame technology, CommScope cabinets are designed to be the right size, the right weight and have the right level of durability to support the entire line of CommScope solutions, including its industry-leading 10 Gbps solutions.

CommScope Network Cabinets are multi-practice 19 in and/or ETSI cabinet systems designed to support and enhance the installation of the network infrastructure. With any enclosure, you need it to provide:

- Strength
- Security
- Physical protection
- Minimal footprint
- Thermal, power and cable management
- Access
- Modularity, future proofing



Cabinet with Glass Door

X-Frame technology, with its lightweight, intelligent design and 500 kg/1100 lb capacity, reduces installation time and provides instant access for cable installation. Cable can be pulled into position first, before the cabinet is located and fixed onto tiles, creating maximum “elbow room” to work and draw cable into place. Fully moveable 19 in mountable uprights (front and rear) allow for maximum flexibility.

CommScope Network Cabinets’ combination of strength yet lightweight construction, excellent cable access and management, plus extensive fast fitting accessories have set a new standard for datacom enclosures.

Features and Benefits:

- Supplied fully assembled
- Cable management room is superior for 10 Gbps cable
- Multiple cable entry points
- Vertical cable channels
- Patented X-Frame technology offers easy cable and equipment installation
- Load rated to 500 kg/1100 lb
- Right/left-handed doors
- Easily-removed and refitted cladding
- Future-proofed—can accommodate 19 in and ETSI equipment
- Accessories can be easily added or changed
- 2 width options—600 mm and 800 mm
- 2 depth options—600 mm and 800 mm

Standards

IEC 297-2
DIN 41494, part 7
DIN 41491, part 1 (mounting dimensions)
EN 60950
VDE 0100

Flat Packaging Network Cabinets

CommScope Network Cabinets are available in flat packaging. Cabinets packaged in a flat pack configuration requires less floor space at a customer site and decreases transportation damage using minimal packaging that can be easily flattened for reduced clutter at the jobsite.

Features and Benefits of Flat Pack:

- Thoroughly tested package design affords excellent protection to the cabinet throughout transport even into remote areas
- Requires about half the cubic volume as the fully assembled cabinet, thus decreasing transportation damage and associated carbon footprint
- Can be stacked four or five cabinets high, taking up less floor space when stored at customer site awaiting installation
- Excellent option for sites having limited door clearance and/or no freight elevators
- Minimal packaging
 - Requires only one skid for two cabinets
 - Can be easily flattened for reduced clutter at the jobsite
 - Reduces packaging removal cost
 - Lessens environmental impact
- Cabinets can be easily assembled with standard hand tools using easy to follow illustrated instruction

Network Cabinets



Network Primary Cabinet Builds

Material ID	Catalog Number	Description	Front Door	Rear Door
760078816	NC 42U 6X6 GF SR WS	Network Cabinet 42U 600 x 600	Glass, Plain	Steel, Plain
760078824	NC 42U 6X6 GF SR WoS	Network Cabinet 42U 600 x 600 Additional Bay	Glass, Plain	Steel, Plain
760078832	NC 42U 6X8 GF SR WS	Network Cabinet 42U 600 x 800	Glass, Plain	Steel, Plain
760078840	NC 42U 6X8 GF SR WoS	Network Cabinet 42U 600 x 800 Additional Bay	Glass, Plain	Steel, Plain
760078857	NC 42U 8X6 GF SR WS	Network Cabinet 42U 800 x 600	Glass, Plain	Steel, Plain
760078865	NC 42U 8X6 GF SR WoS	Network Cabinet 42U 800 x 600 Additional Bay	Glass, Plain	Steel, Plain
760078873	NC 42U 8X8 GF SR WS	Network Cabinet 42U 800 x 800	Glass, Plain	Steel, Plain
760078881	NC 42U 8X8 GF SR WoS	Network Cabinet 42U 800 x 800 Additional Bay	Glass, Plain	Steel, Plain

Products available in Flat Packaging - Please add **FP** to Material ID and Catalog Number

Hardware Included with each Network Cabinet:

- (4) Earthing squids (fitted), All necessary attachment points (fitted), M6 primary earthing point (fitted), (40) Earthing cage nuts,
- (40) M6 x 18 cheese head pozi front panel screws, (40) Plastic cup washers, (4) Adjustable feet

Hardware Included with Additional Bay - 1 Baying Kit:

- (8) Baying brackets, (4) M6 screws, (4) M6 nuts

WS = Cabinet Frame, Side Panels, Vented Top Panel and Associated Hardware

WoS = Cabinet Frame, Vented Top Panel and Associated Hardware. Does not include side panels.



Cabinet Frame

Material ID	Catalog Number	Description	Front Door	Rear Door
760099473	NC 45U 6X6 GF SR WS	Network Cabinet 45U 600 x 600	Glass, Plain	Steel, Plain
760099481	NC 45U 6X6 GF SR WoS	Network Cabinet 45U 600 x 600 Additional Bay	Glass, Plain	Steel, Plain
760099499	NC 45U 6X8 GF SR WS	Network Cabinet 45U 600 x 800	Glass, Plain	Steel, Plain
760099507	NC 45U 6X8 GF SR WoS	Network Cabinet 45U 600 x 800 Additional Bay	Glass, Plain	Steel, Plain
760099515	NC 45U 8X6 GF SR WS	Network Cabinet 45U 800 x 600	Glass, Plain	Steel, Plain
760099523	NC 45U 8X6 GF SR WoS	Network Cabinet 45U 800 x 600 Additional Bay	Glass, Plain	Steel, Plain
760099531	NC 45U 8X8 GF SR WS	Network Cabinet 45U 800 x 800	Glass, Plain	Steel, Plain
760099549	NC 45U 8X8 GF SR WoS	Network Cabinet 45U 800 x 800 Additional Bay	Glass, Plain	Steel, Plain

WS = Cabinet Frame, Side Panels, Vented Top Panel and Associated Hardware

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Network Primary Cabinet Builds

Material ID	Catalog Number	Description	Front Door	Rear Door
760094011	NC 47U 6X6 GF SR WS	Network Cabinet 47U 600 x 600	Glass, Plain	Steel, Plain
760094029	NC 47U 6X6 GF SR WoS	Network Cabinet 47U 600 x 600 Additional Bay	Glass, Plain	Steel, Plain
760094037	NC 47U 6X8 GF SR WS	Network Cabinet 47U 600 x 800	Glass, Plain	Steel, Plain
760094045	NC 47U 6X8 GF SR WoS	Network Cabinet 47U 600 x 800 Additional Bay	Glass, Plain	Steel, Plain
760094052	NC 47U 8X6 GF SR WS	Network Cabinet 47U 800 x 600	Glass, Plain	Steel, Plain
760094060	NC 47U 8X6 GF SR WoS	Network Cabinet 47U 800 x 600 Additional Bay	Glass, Plain	Steel, Plain
760094078	NC 47U 8X8 GF SR WS	Network Cabinet 47U 800 x 800	Glass, Plain	Steel, Plain
760094086	NC 47U 8X8 GF SR WoS	Network Cabinet 47U 800 x 800 Additional Bay	Glass, Plain	Steel, Plain

WS = Cabinet Frame, Side Panels, Vented Top Panel and Associated Hardware

WoS = Cabinet Frame, Vented Top Panel and Associated Hardware. Does not include side panels.

Network Cabinets



Network Primary “Plus” Cabinet Builds

Material ID	Catalog Number	Description	Front Door	Rear Door
760078899	NC 42U 6X6 GF SR WS wE	Network Cabinet 42U 600 x 600 (Earthed)	Glass, Plain	Steel, Plain
760078907	NC 42U 6X6 GF SR WoS wE	Network Cabinet 42U 600 x 600 (Earthed) Additional Bay	Glass, Plain	Steel, Plain
760078915	NC 42U 6X8 GF SR WS wE	Network Cabinet 42U 600 x 800 (Earthed)	Glass, Plain	Steel, Plain
760078923	NC 42U 6X8 GF SR WoS wE	Network Cabinet 42U 600 x 800 (Earthed) Additional Bay	Glass, Plain	Steel, Plain
760078931	NC 42U 8X6 GF SR WS wE	Network Cabinet 42U 800 x 600 (Earthed)	Glass, Plain	Steel, Plain
760078949	NC 42U 8X6 GF SR WoS wE	Network Cabinet 42U 800 x 600 (Earthed) Additional Bay	Glass, Plain	Steel, Plain
760078956	NC 42U 8X8 GF SR WS wE	Network Cabinet 42U 800 x 800 (Earthed)	Glass, Plain	Steel, Plain
760078964	NC 42U 8X8 GF SR WoS wE	Network Cabinet 42U 800 x 800 (Earthed) Additional Bay	Glass, Plain	Steel, Plain

Products available in Flat Packaging - Please add **FP** to Material ID and Catalog Number

WS = Cabinet Frame, Side Panels, Vented Top Panel and Associated Hardware

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Material ID	Catalog Number	Description	Front Door	Rear Door
760099556	NC 45U 6X6 GF SR WS wE	Network Cabinet 45U 600 x 600 (Earthed)	Glass, Plain	Steel, Plain
760099564	NC 45U 6X6 GF SR WoS wE	Network Cabinet 45U 600 x 600 (Earthed) Additional Bay	Glass, Plain	Steel, Plain
760099572	NC 45U 6X8 GF SR WS wE	Network Cabinet 45U 600 x 800 (Earthed)	Glass, Plain	Steel, Plain
760099582	NC 45U 6X8 GF SR WoS wE	Network Cabinet 45U 600 x 800 (Earthed) Additional Bay	Glass, Plain	Steel, Plain
760099598	NC 45U 8X6 GF SR WS wE	Network Cabinet 45U 800 x 600 (Earthed)	Glass, Plain	Steel, Plain
760099606	NC 45U 8X6 GF SR WoS wE	Network Cabinet 45U 800 x 600 (Earthed) Additional Bay	Glass, Plain	Steel, Plain
760099614	NC 45U 8X8 GF SR WS wE	Network Cabinet 45U 800 x 800 (Earthed)	Glass, Plain	Steel, Plain
760099622	NC 42U 8X8 GF SR WoS wE	Network Cabinet 45U 800 x 800 (Earthed) Additional Bay	Glass, Plain	Steel, Plain

WS = Cabinet Frame, Side Panels, Vented Top Panel and Associated Hardware

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X-Frame Top View



Cabinet with Glass Door



X-Frame Bottom View

Network Cabinets



Network Primary “Plus” Cabinet Builds

Material ID	Catalog Number	Description	Front Door	Rear Door
760094094	NC 47U 6X6 GF SR WS wE	Network Cabinet 47U 600 x 600 (Earthed)	Glass, Plain	Steel, Plain
760094102	NC 47U 6X6 GF SR WoS wE	Network Cabinet 47U 600 x 600 (Earthed) Additional Bay	Glass, Plain	Steel, Plain
760094110	NC 47U 6X8 GF SR WS wE	Network Cabinet 47U 600 x 800 (Earthed)	Glass, Plain	Steel, Plain
760094128	NC 47U 6X8 GF SR WoS wE	Network Cabinet 47U 600 x 800 (Earthed) Additional Bay	Glass, Plain	Steel, Plain
760094136	NC 47U 8X6 GF SR WS wE	Network Cabinet 47U 800 x 600 (Earthed)	Glass, Plain	Steel, Plain
760094144	NC 47U 8X6 GF SR WoS wE	Network Cabinet 47U 800 x 600 (Earthed) Additional Bay	Glass, Plain	Steel, Plain
760094151	NC 47U 8X8 GF SR WS wE	Network Cabinet 47U 800 x 800 (Earthed)	Glass, Plain	Steel, Plain
760094169	NC 47U 8X8 GF SR WoS wE	Network Cabinet 47U 800 x 800 (Earthed) Additional Bay	Glass, Plain	Steel, Plain

Products available in Flat Packaging - Please add **FP** to Material ID and Catalog Number

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Accessories

Frames

Material ID	Catalog Number	Description
760078972	NC 42U 6X6 FRAME	Network Cabinet Frame 42U 600 x 600
760078980	NC 42U 6X8 FRAME	Network Cabinet Frame 42U 600 x 800
760078998	NC 42U 8X6 FRAME	Network Cabinet Frame 42U 800 x 600
760079004	NC 42U 8X8 FRAME	Network Cabinet Frame 42U 800 x 800
760101139	NC 45U 6X6 FRAME	Network Cabinet Frame 45U 600 x 600
760101147	NC 42U 6X8 FRAME	Network Cabinet Frame 45U 600 x 800
760101154	NC 42U 8X6 FRAME	Network Cabinet Frame 45U 800 x 600
760101162	NC 42U 8X8 FRAME	Network Cabinet Frame 45U 800 x 800
760098608	NC 47U 6X6 FRAME	Network Cabinet Frame 47U 600 x 600
760098616	NC 47U 6X8 FRAME	Network Cabinet Frame 47U 600 x 800
760098624	NC 47U 8X6 FRAME	Network Cabinet Frame 47U 800 x 600
760098632	NC 47U 8X8 FRAME	Network Cabinet Frame 47U 800 x 800

Front and Rear Doors

Material ID	Catalog Number	Description
760079012	DR GL 42U 600 SPL	42U x 600 Plain Glass Door - 1 Point Lock
760079020	DR GL 42U 800 SPL	42U x 800 Plain Glass Door - 1 Point Lock
760079038	DR ST 42U 600 SPL	42U x 600 Plain Steel Door - 1 Point Lock
760079046	DR ST 42U 800 SPL	42U x 800 Plain Steel Door - 1 Point Lock
760079137	DR VD 42U 600 2PL	42U x 600 Vent Double Door - 2 Point Lock
760079145	DR VD 42U 800 2PL	42U x 800 Vent Double Door - 2 Point Lock
760101758	DR GL 45U 600 1PL	45U x 600 Plain Glass Door - 1 Point Lock
760101766	DR GL 45U 800 1PL	45U x 800 Plain Glass Door - 1 Point Lock
760101774	DR ST 45U 600 1PL	45U x 600 Plain Steel Door - 1 Point Lock
760101782	DR ST 45U 800 1PL	45U x 800 Plain Steel Door - 1 Point Lock
760101873	DR VD 45U 600 2PL	45U x 600 Vent Double Door - 2 Point Lock
760101881	DR VD 45U 800 2PL	45U x 800 Vent Double Door - 2 Point Lock
760094177	DR GL 47U 600 1PL	47U x 600 Plain Glass Door - 1 Point Lock
760094185	DR GL 47U 800 1PL	47U x 800 Plain Glass Door - 1 Point Lock
760094193	DR ST 47U 600 1PL	47U x 600 Plain Steel Door - 1 Point Lock
760094201	DR ST 47U 800 1PL	47U x 800 Plain Steel Door - 1 Point Lock
760094292	DR VD 47U 600 2PL	47U x 600 Vent Double Door - 2 Point Lock
760094300	DR VD 47U 800 2PL	47U x 800 Vent Double Door - 2 Point Lock

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Extended Rear Doors

Material ID	Catalog Number	Description
760103267		Extended Door, 42U x 600 Wide, LH Hinged-Vented
760096586		Extended Door, 42U x 800 Wide, LH Hinged-Vented
760103275		Extended Door, 45U x 600 Wide, LH Hinged-Vented
760103283		Extended Door, 45U x 800 Wide, LH Hinged-Vented

Side Panels

Material ID	Catalog Number	Description
760079186	SP 42U 600D	Side Panel Kit of (2), 42U x 600
760079194	SP 42U 800D	Side Panel Kit of (2), 42U x 800
760101899	SP 45U 600D	Side Panel Kit of (2), 45U x 600
760101907	SP 45U 800D	Side Panel Kit of (2), 45U x 800
760094318	SP 47U 600D	Side Panel Kit of (2), 47U x 600
760094326	SP 47U 800D	Side Panel Kit of (2), 47U x 800

Divider Panels

Material ID	Catalog Number	Description
760079210	DP 42U 800D	42U x 800 Deep Divider Panel
760102293	DP 45U 800D	45U x 800 Deep Divider Panel
760082834	DP 47U 800D	47U x 800 Deep Divider Panel
760082859	DP 47U 1000D	47U x 1000 Deep Divider Panel

Top Panels

Material ID	Catalog Number	Description
760079236	TPV 6X6	600 Wide x 600 Deep Vent Top Panel
760079244	TPV 6X8	600 Wide x 800 Deep Vent Top Panel
760079269	TPV 8X6	800 Wide x 600 Deep Vent Top Panel
760079277	TPV 8X8	800 Wide x 800 Deep Vent Top Panel
760079293	TPP 6X6	600 Wide x 600 Deep Plain Top Panel
760079301	TPP 6X8	600 Wide x 800 Deep Plain Top Panel
760079327	TPP 8X6	800 Wide x 600 Deep Plain Top Panel
760079335	TPP 8X8	800 Wide x 800 Deep Plain Top Panel

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Accessories

Adjustable Feet

Material ID	Catalog Number	Description
760079350	ADJ FT	Adjustable Feet - Pack of 4
760079368	CASTOR	Castor Leveller Combination - Cable Frame Only - Pack of 4
760079376	BDCLAMP	Bolt Down Clamps - Pack of 4



CASTOR



BDCLAMP

Baying Kits

Material ID	Catalog Number	Description
760079400	BAYKIT	Baying Kit
760079418	HBT 600D	600 mm Deep Horizontal Baying Trim
760079426	HBT 800D	800 mm Deep Horizontal Baying Trim
760079475	6X6, 8X6 NC RAFT	600W x 600D and 800W x 600D Cable Frame Raft System
760079483	6X8, 8X8 NC RAFT	600W x 800D and 800W x 800D Cable Frame Raft System



BAYKIT



HBT 600D



6x6, 8x6 NC RAFT

100 mm Plinths

Material ID	Catalog Number	Description
760080150	6X8 NV 100M PLINTH	600 x 800 Non Vented 100 mm Plinth
760080176	8X6 NV 100M PLINTH	800 x 600 Non Vented 100 mm Plinth
760080184	8X8 NV 100M PLINTH	800 x 800 Non Vented 100 mm Plinth

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Accessories

Floor Tile Replacement Plinth

Material ID	Catalog Number	Description
760079491	6WR SDCB	600W Raft / Split Door Cross Beam
760079509	8WR SDCB	800W Raft / Split Door Cross Beam

Top Cable Management

Material ID	Catalog Number	Description
760079541	TOP SIDE BRUSH	Top Panel Side Brush Entry
760079558	TOP REAR BRUSH	Top Panel Rear Brush Entry

Filler Panels

Material ID	Catalog Number	Description
760079731	1U FP 12PK	1U x 19 in Front Panel - Pack of 12
760079749	2U FP 12PK	2U x 19 in Front Panel - Pack of 12
760079756	3U FP 6PK	3U x 19 in Front Panel - Pack of 6
760079764	4U FP 6PK	4U x 19 in Front Panel - Pack of 6
760079772	5U FP 6PK	5U x 19 in Front Panel - Pack of 6
760079780	10U FP 2PK	10U x 19 in Front Panel - Pack of 2
760079798	2U VFP 12PK	2U x 19 in Vented Front Panel - Pack of 12
760079806	4U VFP 6PK	4U x 19 in Vented Front Panel - Pack of 6
760079814	MPP Various Sizes	Multi Pack of Panels 2x1U, 1x2U, 1x3U, 1x4U and 1x5U

Quick Release Blank Panels

Material ID	Catalog Number	Description
760103473	QR-RKFP1U-B	Kit, 1U x 19 in. Blank Panel, Quick Release
760103481	QR-RKFP2U-B	Kit, 2U x 19 in. Blank Panel, Quick Release
760103499	QR-RKFP4U-B	Kit, 4U x 19 in. Blank Panel, Quick Release



Quick Release Blank Panel

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Accessories

Cantilever Shelves

Material ID	Catalog Number	Description
760079822	CNTLVR SHLF 255D	19 in Cantilever Shelf 255 Deep
760079830	CNTLVR SHLF 400D	19 in Cantilever Shelf 400 Deep

Heavy Duty Shelves

Material ID	Catalog Number	Description
760080010	472 HD SHLF 100 kg	19 in x 472 Heavy Duty Shelf - 100 kg/220 lb Capacity
760080028	627 HD SHLF 100 kg	19 in x 622 Heavy Duty Shelf - 100 kg/220 lb Capacity
760080036	754 HD SHLF 100 kg	19 in x 754 Heavy Duty Shelf - 100 kg/220 lb Capacity

Sliding Shelves

Material ID	Catalog Number	Description
760080044	425 SLID SHLF 35 kg	19 in x 600 mm Sliding Shelf - 35 kg/77 lb Capacity
760080051	625 SLID SHLF 35 kg	19 in x 800 mm Sliding Shelf - 35 kg/77 lb Capacity
760080077	630 HD SLID SHLF 100 kg	19 in x 800 mm Heavy Duty Sliding Shelf - 100 kg/220 lb Capacity

Fan Trays

Material ID	Catalog Number	Description
760080200	SFT 230V	M6 x 12 Whiztite Screws - Pack of 100
760080218	SFT 115V	M6 Whiztite Nuts - Pack of 100
760080226	LNFT 230V	Plastic Retention Pins - Pack of 100
760080234	LNFT 115V	M6 x 18 Pozzi Drive Screws And Cup Washers - Pack of 100
760080242	MFT 90-250V	M6 x 18 Slotted Drive Screws And Cup Washers - Pack of 100
760080259	LED CE22-13A UK	M6 x 18 Pozzi Drive Screws And Cup Washers - Pack of 1000
760080267	LED CE22-SCH GERFRN	M6 Caged Nuts - Pack of 100
760080275	LED CE22-US	M6 Caged Nuts - Pack of 1000
760080283	REP-ADD SF 240V	M6 Caged Nut With Earth Continuity - Pack of 100
760080309	REP-ADD LNF 240V	M6 Caged Nut With Earth Continuity - Pack of 100
760080291	REP-ADD SF 115V	M6 Caged Nut With Earth Continuity - Pack of 100
760080317	REP-ADD LNF 115V	M6 Caged Nut With Earth Continuity - Pack of 100



LNFT 115V



LED CE22-SCH GERFRN



LED CE22-US



REP-ADD LNF 240V

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Grounding Accessories

Material ID	Catalog Number	Description
760080366	EARTH SQUID	Earthing Squid Kit - Pack of 4
760080374	10 ACC LEADS	Kit of 10 Accessory Earthing Leads

Magnetic Lights

Material ID	Catalog Number	Description
760080473	LIGHT SCH 230V	Light Schuko Version 230V
760080499	LIGHT US 115V	Light US Version 115V

Hardware

Material ID	Catalog Number	Description
760080531	M6X12 SCREWS 100PK	M6 x 12 Whiztite Screws - Pack of 100
760080549	M6 NUTS 100PK	M6 Whiztite Nuts - Pack of 100
760080556	PLST RET PINS 100PK	Plastic Retention Pins - Pack of 100
760080564	M6X18 PSCRW-WSH 100PK	M6 x 18 Pozi Drive Screws And Cup Washers - Pack of 100
760080572	M6X18 SSCRW-WSH 100PK	M6 x 18 Slotted Drive Screws And Cup Washers - Pack of 100
760080580	M6X18 PSCRW-WSH 1000PK	M6 x 18 Pozi Drive Screws And Cup Washers - Pack of 1000
760080598	M6 CN 100PK	M6 Caged Nuts - Pack of 100
760080606	M6 CN 1000PK	M6 Caged Nuts - Pack of 1000
760080614	M6 CNWEC 100PK	M6 Caged Nut With Earth Continuity - Pack of 100



M6X18 SSCRW-WSH



M6X18 PSCRW-WSH



M6 CN

Channel Window Moulding

Material ID	Catalog Number	Description
760081174	CWM 50 10PK	50 mm Channel Window Moulding - Pack of 10
760081182	CWM 125 10PK	125 mm Channel Window Moulding - Pack of 10

125 mm Channel Cable Retention Bobbins

Material ID	Catalog Number	Description
760081190	CCRB 125 10PK	125 mm Channel Cable Retention Bobbins - Pack of 10

Chassis Supports

Material ID	Catalog Number	Description
760079897	366 CHS SPT NC	366 mm Chassis Supports For Cable Cabinets - 1 Pair
760082818	566 CHS SPT NC	19 in x 566 Chassis Supports -1 Pair (8 and 10)



366 CHS SPT NC

Network Cabinets



Accessories

Chassis Trays

Material ID	Catalog Number	Description
760079913	366 CHS TRAY	19 in x 366 Chassis Tray For Cable Cabinets
760079962	566 CHS TRAY 8-10D	19 in x 566 Chassis Tray For Cable Cabinets



366 CHS TRAY

Fiber Management Duct Kits

Material ID	Catalog Number	Description
760103374	FM DUCT 42U	42U Fiber Management Duct Kit
760103366	FM DUCT 45U	45U Fiber Management Duct Kit
760103358	FM DUCT 47U	47U Fiber Management Duct Kit

18-inch Ladder Support Kit

Material ID	Catalog Number	Description
760104315	LR BRACKET 18IN	Kit, Bracket, Support 18-inch Ladder Rack

Ladder Extension Kit

Material ID	Catalog Number	Description
760104323	LR BRACKET EXT	Kit, Bracket, Extension, Ladder Rack Support

Front to Back Trough Kits

Material ID	Catalog Number	Description
760106997	F2B 162MM CM	Kit, Trough, Front to Back, 162W Cable Module
760104331	F2B 200MM CM	Kit, Trough, Front to Back, 200W Cable Module
760107003	F2B 250MM CM	Kit, Trough, Front to Back, 250.8W Cable Module
760107011	F2B 300MM CM	Kit, Trough, Front to Back, 300W Cable Module
760107029	F2B 352MM CM	Kit, Trough, Front to Back, 352.4W Cable Module

Side to Side Trough Kits

Material ID	Catalog Number	Description
760104349	S2S 600MM CAB	Kit, Trough, Side to Side, 600W Cabinet Top
760104356	S2S 800MM CAB	Kit, Trough, Side to Side, 800W Cabinet Top

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Network Cabinets

Explanation of Cabinet Accessories

Divider Panels

Divider panels are full height steel panels, held in place between adjacent cabinets by the baying brackets provided. For use in bayed suites of cabinets, the divider panel restricts access to adjacent cabinets. Secure apertures, which can only be opened by having access to both sides, are provided at appropriate locations. Window moldings are provided for when the apertures are used. Divider panels can be used with open frame cabinets or additional bay cabinets. For use with all open frame cabinets and standard cabinet configurations.

Plain Top Panels

For use where limited heat is generated in the cabinet or where heat must not be allowed to pass through the top of a cabinet. Supplied with all required fixings. Plain top panels can be used with open frame cabinets or can be used to replace the vented top panel supplied with all other standard cabinet configurations.

Adjustable Feet

For use where replacements are required for damaged feet or where additional feet are required on 1000 deep server cabinets, provision is made to allow two additional feet. Recommended for when 1000 deep cabinets are loaded up to the maximum of 1000 kg (2200 lbs). Each foot is capable of taking up to 250 kg load. Supplied as a kit of four. All open frame cabinets and standard cabinet configurations are supplied with four adjustable feet.

Castor Leveler Combination

For use where castors are required on network cabinets. This product is a castor with built in adjustable foot. This allows the cabinet to be easily moved and once positioned the built in adjustable foot can be used to level the cabinet. The foot can be bolted down using the bolt down clamp accessory. Supplied as a kit of four. Dynamic load rating for four castors is 260 kg. Static load rating is 500 kg. The castor leveler combination can be used with all open frame network cabinets and standard network cabinet configurations.

Bolt Down Clamps

This is a kit of four clamps which fit over either the adjustable feet or the castor leveler combination. The clamps are bolted down using 8mm DIA bolts (not supplied). For use with all open frame and standard cabinet configurations.

Adjustable Foot Spacer

For server cabinet applications where adjustable feet and heavy duty castors are used an adjustable foot spacer kit is required. Supplied as a kit of four. These spacers add to the length of the adjustable feet, thereby compensating for the height of the heavy duty castors. For use with all open frame server cabinets and standard server cabinet configurations that have heavy duty castors fitted.

Heavy Duty Castors

For use where castors are required on server cabinets. These allow a partially loaded cabinet to be easily moved into position. Supplied as a kit of four plus fixings. Two of the castors are braked. Dynamic load rating for four castors is 488 kg. Static load rating is 1000 kg. For use with all open frame server cabinets and standard server cabinet configurations.

Baying Kit

This kit is designed to join two cabinets of the same depth together side by side; independent as to whether they are server or network cabinets. The baying kit fits to the front face of each of the cabinet vertical members therefore cabinets can be bayed or unbayed even when fully populated with equipment. Supplied as a kit of four pairs plus fixings. Additional bayed cabinets are supplied with a baying kit. For use with all open frame and standard cabinet configurations which are to be converted to additional bay configurations.

Horizontal Baying Trims

When two cabinets are bayed together a 50mm (2") full depth cable entry exists between the cabinet top panels. This cable entry can be used to feed cables in from overhead. If this cable entry is not required then a horizontal baying trim is required. This trim can be fitted after the cabinets are bayed together and without removing the cabinet top panels. Supplied as a single item. For use with all bayed standard cabinet configurations.

Raft System – Network Cabinets

The 'raft mounting system' (floor tile replacement plinth) replaces a 600 x 600mm raised floor tile with a raised plinth that allows any size of cabinet to sit on it. The raft permits the floor tile in front of and behind the cabinet to be easily removed so access to the false floor void can be easily gained. When using 800mm cabinets they must be used in bays (groups) of three. A bay of three 800mm wide cabinets has a total width of 2,400mm (3 x 800mm) and will therefore require four rafts (4 x 600mm = 2,400mm). The raft kits are supplied as single items plus fixings and the relevant mounting brackets to suit the depth of cabinet. For use with all open frame network cabinets and standard network cabinet configurations. Please note that 600mm deep cabinets with split rear doors will require the addition of a split door cross beam kit (760079491 or 760079509).

Network Cabinets



Explanation of Cabinet Accessories

Raft System – Server Cabinets

The 'raft mounting system' (floor tile replacement plinth) replaces a 600 x 600mm raised floor tile with a raised plinth that allows any size of cabinet to sit on it. The raft permits the floor tile in front of and behind the cabinet to be easily removed so access to the false floor void can be easily gained. When using 800mm cabinets they must be used in bays (groups) of three. A bay of three 800mm wide cabinets has a total width of 2,400mm (3 x 800mm) and will therefore require four rafts (4 x 600mm = 2,400mm). The raft kits are supplied as single items plus fixings and the relevant mounting brackets to suit the depth of cabinet. For use with all open frame server cabinets and standard server cabinet configurations.

Raft / Plinth Split Door Cross Beam

The raft / plinth split door kit is required when 600mm deep cabinets fitted with split doors are mounted onto rafts or when any size of cabinet with split doors is fitted to a plinth kit. Supplied as a single item plus fixings. For use with all open frame and standard cabinet configurations.

Cable / PDU Mounting Panel

The rear section of 1000 deep server cabinets provides an ideal area for running cables or mounting PDU's. The PDU panel fits into this area and provides numerous mounting points for fitting PDU brackets and cable ties, the approximate width of the panel is 150mm (6") wide. The 9.6mm (3/8") square punched holes in the panel will accept standard M6 cage nuts. The panel runs the full height of the cabinet. Supplied as a single item plus fixings and mounting brackets. For use with all open frame 1000mm deep server cabinets and standard 1000mm deep server cabinet configurations.

Top Panel Side Brush Entry

For top cable entry applications cables can enter the cabinet on either side or the rear of the top cover. The top panel side brush entry provides a smooth curved edge for the cable to flow over plus a brush seal that minimizes dust ingress or air leakage to or from the cabinet. Supplied as a single item for one side of a top panel. For use with all open frame cabinets fitted with a top panel and all standard cabinet configurations.

Top Panel Rear Brush Entry

For top cable entry applications cables can enter the cabinet on either side or the rear of the top cover. The top panel rear brush entry provides a smooth curved edge for the cable to flow over plus a brush seal that minimizes dust ingress or air leakage to or from the cabinet. Supplied as a single item for the rear of a top panel. For use with all open frame cabinets fitted with a top panel and all standard cabinet configurations.

19" Cantilever Shelf 255 Deep

Fits to the standard 19" mounting rails. The shelf is 2U high and the cabinet mounting rails must be set to a minimum of 255mm (10") overall. Load rating is 20 kg (44 lbs). Supplied as a single item plus fixings. For use with all open frame cabinets and standard cabinet configurations.

19" Cantilever Shelf 400 Deep

Fits to the standard 19" mounting rails. The shelf is 2U high and the cabinet mounting rails must be set to a minimum of 400mm (15.75") overall. Load rating is 20 kg (44 lbs). Supplied as a single item plus fixings. For use with all open frame cabinets and standard cabinet configurations.

19" x 366 Chassis Supports

These supports offer an ideal method of supporting heavy loads in line with 'U' positions. Fits to the standard 19" mounting rails. The supports are 1U high and the cabinet mounting rails must be set to a minimum of 400mm (15.75") overall and a maximum of 500mm (19.68"). Note that the depth of the network cabinet mounting rails can only be changed in increments of 25mm (1"); each pair of supports has a load rating of 50 kg (110 lbs). Supplied as a pair plus fixings. For use with all open frame network cabinets and standard network cabinet configurations.

19" x 566 Chassis Supports

These supports offer an ideal method of supporting heavy loads in line with 'U' positions. Fits to the standard 19" mounting rails. The supports are 1U high and the cabinet mounting rails must be set to a minimum of 550mm (21.65") overall and a maximum of 700mm (27.56"). Note that the depth of the network cabinet mounting rails can only be changed in increments of 25mm (1"); each pair of supports has a load rating of 50 kg (110 lbs). Supplied as a pair plus fixings. For use with all open frame network cabinets and standard network cabinet configurations.

370mm Chassis Supports

These supports offer an ideal method of supporting heavy loads in line with 'U' positions. Fits to the standard 19" mounting rails. The supports are 1U high and the cabinet mounting rails can be set to a minimum of 374mm (14.72") overall and a maximum of 517.93mm (20.39"). Each pair of supports has a load rating of 50 kg (110 lbs). Supplied as a pair plus fixings. For use with all open frame cabinets and standard cabinet configurations.

470mm Chassis Supports

These supports offer an ideal method of supporting heavy loads in line with 'U' positions. Fits to the standard 19" mounting rails. The supports are 1U high and the cabinet mounting rails can be set to a minimum of 474mm (18.66") overall and a maximum of 617.93mm (24.33"). Each pair of supports has a load rating of 50 kg (110 lbs). Supplied as a pair plus fixings. For use with all open frame cabinets and standard cabinet configurations.

570mm Chassis Supports

These supports offer an ideal method of supporting heavy loads in line with 'U' positions. Fits to the standard 19" mounting rails. The supports are 1U high and the cabinet mounting rails can be set to a minimum of 574mm (22.6") overall and a maximum of 717.93mm (28.26"). Each pair of supports has a load rating of 50 kg (110 lbs). Supplied as a pair plus fixings. For use with all open frame cabinets and standard cabinet configurations.

Network Cabinets

Explanation of Cabinet Accessories

670mm Chassis Supports

These supports offer an ideal method of supporting heavy loads in line with 'U' positions. Fits to the standard 19" mounting rails. The supports are 1U high and the cabinet mounting rails can be set to a minimum of 674mm (26.53") overall and a maximum of 817.93mm (32.2"). Each pair of supports has a load rating of 50 kg (110 lbs). Supplied as a pair plus fixings. For use with all open frame cabinets and standard cabinet configurations.

770mm Chassis Supports

These supports offer an ideal method of supporting heavy loads in line with 'U' positions. Fits to the standard 19" mounting rails. The supports are 1U high and the cabinet mounting rails can be set to a minimum of 774mm (30.47") overall and a maximum of 917.93mm (36.14"). Each pair of supports has a load rating of 50 kg (110 lbs). Supplied as a pair plus fixings. For use with all open frame cabinets and standard cabinet configurations.

870mm Chassis Supports

These supports offer an ideal method of supporting heavy loads in line with 'U' positions. Fits to the standard 19" mounting rails. The supports are 1U high and the cabinet mounting rails can be set to a minimum of 874mm (34.4") overall and a maximum of 1017.93mm (40.07"). Each pair of supports has a load rating of 50 kg (110 lbs). Supplied as a pair plus fixings. For use with all open frame cabinets and standard cabinet configurations.

19" X 366 Chassis Tray

The supporting surface of the tray is in line with the bottom of the 'U' above it, therefore the tray can be used to support both 19" mounted equipment and non 19" mounted systems. Slotted holes offer air passage and also provide simple fixing positions. The tray has a load rating of 50 kg (110 lbs). This chassis tray requires a suitable pair of chassis supports of equal or greater length than the tray (the chassis supports fit between the front and rear 19" mounting rails). Suitable chassis supports for this tray are 760079897 and 760082818. Supplied as a single item plus fixings. For use with all open frame network cabinets and standard network cabinet configurations.

19" X 566 Chassis Tray

The supporting surface of the tray is in line with the bottom of the 'U' above it, therefore the tray can be used to support both 19" mounted equipment and non 19" mounted systems. Slotted holes offer air passage and also provide simple fixing positions. The tray has a load rating of 50 kg (110 lbs). This chassis tray requires a suitable pair of chassis supports of equal or greater length than the tray (the chassis supports fit between the front and rear 19" mounting rails). Suitable chassis supports for this tray are 760082818. Supplied as a single item plus fixings. For use with all open frame network cabinets and standard network cabinet configurations.

19" X 356 Chassis Tray

The supporting surface of the tray is in line with the bottom of the 'U' above it, therefore the tray can be used to support both 19" mounted equipment and non 19" mounted systems. Slotted holes offer air passage and also provide simple fixing positions. The tray has a load rating of 50 kg (110 lbs). This chassis tray requires a suitable pair of chassis supports of equal or greater length than the tray (the chassis supports fit between the front and rear 19" mounting rails). Suitable chassis supports for this tray are 760082735, 760082743, 760082750, 760082768, 760082776 & 760082784. Supplied as a single item plus fixings. For use with all open frame cabinets and standard cabinet configurations.

19" X 456 Chassis Tray

The supporting surface of the tray is in line with the bottom of the 'U' above it, therefore the tray can be used to support both 19" mounted equipment and non 19" mounted systems. Slotted holes offer air passage and also provide simple fixing positions. The tray has a load rating of 50 kg (110 lbs). This chassis tray requires a suitable pair of chassis supports of equal or greater length than the tray (the chassis supports fit between the front and rear 19" mounting rails). Suitable chassis supports for this tray are 760082743, 760082750, 760082768, 760082776 & 760082784. Supplied as a single item plus fixings. For use with all open frame cabinets and standard cabinet configurations.

19" X 556 Chassis Tray

The supporting surface of the tray is in line with the bottom of the 'U' above it, therefore the tray can be used to support both 19" mounted equipment and non 19" mounted systems. Slotted holes offer air passage and also provide simple fixing positions. The tray has a load rating of 50 kg (110 lbs). This chassis tray requires a suitable pair of chassis supports of equal or greater length than the tray (the chassis supports fit between the front and rear 19" mounting rails). Suitable chassis supports for this tray are 760082750, 760082768, 760082776 & 760082784. Supplied as a single item plus fixings. For use with all open frame cabinets and standard cabinet configurations.

19" X 472 Heavy Duty Shelf

The supporting surface of the tray is in line with the bottom of the 'U' above it, therefore the tray can be used to support both 19" mounted equipment and non 19" mounted systems. Slotted holes offer air passage and also provide simple fixing positions. Each shelf has a load rating of 100 kg (220 lbs). This chassis tray requires two suitable pairs of chassis supports (mounted above and below the shelf) of equal or greater length than the shelf (the chassis supports fit between the front and rear 19" mounting rails). Suitable chassis supports for this shelf are 760082743, 760082750, 760082768, 760082776 & 760082784. Supplied as a single item plus fixings. For use with all open frame server cabinets and standard server cabinet configurations.

Network Cabinets



Explanation of Cabinet Accessories

19" X 627 Heavy Duty Shelf

The supporting surface of the tray is in line with the bottom of the 'U' above it, therefore the tray can be used to support both 19" mounted equipment and non 19" mounted systems. Slotted holes offer air passage and also provide simple fixing positions. Each shelf has a load rating of 100 kg (220 lbs). This chassis tray requires two suitable pairs of chassis supports (mounted above and below the shelf) of equal or greater length than the shelf (the chassis supports fit between the front and rear 19" mounting rails). Suitable chassis supports for this shelf are 760082768, 760082776 & 760082784. Supplied as a single item plus fixings. For use with all open frame server cabinets and standard server cabinet configurations.

19" X 754 Heavy Duty Shelf

The supporting surface of the tray is in line with the bottom of the 'U' above it, therefore the tray can be used to support both 19" mounted equipment and non 19" mounted systems. Slotted holes offer air passage and also provide simple fixing positions. Each shelf has a load rating of 100 kg (220 lbs). This chassis tray requires two suitable pairs of chassis supports (mounted above and below the shelf) of equal or greater length than the shelf (the chassis supports fit between the front and rear 19" mounting rails). Suitable chassis supports for this shelf are 760082776 & 760082784. Supplied as a single item plus fixings. For use with all open frame server cabinets and standard server cabinet configurations.

19" X 425mm Sliding Shelf

The supporting surface of the shelf is in line with the bottom of the 'U' above it, therefore the shelf can be used to support both 19" mounted equipment and non 19" mounted systems. Slotted holes offer air passage and also provide simple fixing positions. The shelf has a load rating of 35 kg (77 lbs) and can be pulled out 330mm (13"). The cabinet mounting rails can be set to a minimum of 456mm (17.95") overall and a maximum of 586mm (23.07"). This maximum dimension can be increased by 35mm (1.38") if the shelf is set back from the front mounting rails. Supplied as a single item plus fixings. For use with all open frame cabinets and standard cabinet configurations.

19" X 625mm Sliding Shelf

The supporting surface of the shelf is in line with the bottom of the 'U' above it, therefore the shelf can be used to support both 19" mounted equipment and non 19" mounted systems. Slotted holes offer air passage and also provide simple fixing positions. The shelf has a load rating of 35 kg (77 lbs) and can be pulled out 480mm (18.9"). The cabinet mounting rails can be set to a minimum of 621.83mm (24.48") overall and a maximum of 787mm (31"). This maximum dimension can be increased by 35mm (1.38") if the shelf is set back from the front mounting rails. Supplied as a single item plus fixings. For use with all open frame cabinets and standard cabinet configurations.

19" x 630 Heavy Duty Sliding Shelf

The supporting surface of the shelf is in line with the bottom of the 'U' above it, therefore the shelf can be used to support both 19" mounted equipment and non 19" mounted systems. Slotted holes offer air passage and also provide simple fixing positions. The shelf has a load rating of 100 kg (220 lbs) and can be pulled out 627mm (24.68"). The cabinet mounting rails can be set to a minimum of 661mm (26") overall and a maximum of 748mm (29.44"). Supplied as a single item plus fixings. For use with all open frame server cabinets and standard server cabinet configurations. When selecting the heavy duty sliding shelf it is strongly advised that the cabinet is bolted down using the bolt down clamp kit 760079376 100mm Plinth The 100mm plinth provides cable access under the cabinet especially in applications where a false or raised floor is not available. The kit consists of corner sections plus four infill panels. The infill panels can be removed to provide cable access and when bayed the plinth, with the side infill panels removed, creates a through run for cables between cabinets. Adjustable feet can be fitted to enable the finished product to be leveled; these feet are normally removed from the cabinet that will be fitted to the plinth. Castors cannot be used with the plinth. Please note that cabinets with split rear doors will require the addition of a split door cross beam kit (760079491 or 760079509). For use with all open frame cabinets and standard cabinet configurations.

Fan Trays

Top mounted fan trays are available to aid the cooling of equipment. They are designed to give maximum airflow with minimum noise generated. These may be retrofitted to the fully vented top panel that is supplied with the cabinet as standard and occupy none of the useable 'U' height or restrict the top cable access points. The electrical connection for all fan trays is by means of a CEE22 mains inlet which must be ordered separately. 760080259 for UK plug, 760080267 for Schuko plug and 760080275 for US plug.

Earthing Squid Kit

This kit enables a non grounded network cabinet to be up graded to a grounded one. Full instructions included with kit. All server cabinets and open frames are grounded as standard. For use with all non grounded standard network cabinet configurations. Kit of 10 Accessory Earthing Leads. This kit contains 10 earthing leads, all of which have a captive M6 nut at each end plus 10 earthing cage screws and 20 M6 x 12 screws. This kit has been designed to provide additional earthing leads for accessories.

Magnetic Lights

This magnetically attached light is ideal for use in any environment with steel cabinets. Using high output low power consumption fluorescent tubes. The 240V unit will require a mains lead and plug. For use with all open frame cabinets and standard cabinet configurations.

Network Cabinets

Explanation of Cabinet Accessories

125mm Channel Window Molding

The 125mm channel window moldings clips into the apertures provided on both sides of the 19" panel mounts of 800mm wide cabinets. They provide a smooth curved surface around the apertures through which cables can be passed. The moldings can be fitted to both the front and rear of each aperture, if desired. Supplied in packs of ten moldings. The maximum number of window moldings is as follows:

Height	Front Only	Front & Rear
42U	28	56
45U	28	56
47U	32	64

For use with all 800mm wide open frame cabinets and standard cabinet configurations.

50mm Channel Window Molding

The 50mm channel window moldings clips into the apertures provided on one side of the 19" panel mounts of 600mm wide network cabinets. They provide a smooth curved surface around the apertures through which cables can be passed. The moldings can be fitted to both the front and rear of each aperture, if desired. Supplied in packs of ten moldings. The maximum number of window moldings is as follows:

Height	Front Only	Front & Rear
42U	28	56
45U	28	56
47U	32	64

For use with all 800mm wide open frame cabinets and standard cabinet configurations.

50mm Channel Window Molding

The 50mm channel window moldings clips into the apertures provided on one side of the 19" panel mounts of 600mm wide network cabinets. They provide a smooth curved surface around the apertures through which cables can be passed. The moldings can be fitted to both the front and rear of each aperture, if desired. Supplied in packs of ten moldings. The maximum number of window moldings is as follows:

Height	Front Only	Front & Rear
42U	7	14
45U	7	14
47U	8	16

For use with all 600mm wide open frame network cabinets and standard network cabinet configurations.

200mm Rear Extension Frames

This unit simply attaches to the rear of a cabinet thereby increasing the overall depth of a 1000mm deep cabinet by 200mm (i.e. a 1000mm deep cabinet becomes 1200mm). Additional vertical members allow the 19" mounting rails to be moved further back in the 1000mm deep cabinet. The load rating of the cabinet remains unchanged at 1000 kg (2200 lbs). Compatible with all accessories such as PDU mounting panels, split rear doors etc. Additional cable entry points are provided at the top and bottom of the extension frame. For use with all 1000mm deep open frame server cabinets and standard 1000mm server cabinet configurations.

Blanking Plates - Pack of 14

These blanking plates close off the window apertures that exist each side of the 19" panel mounts of 800mm wide cabinets. This is often needed to control the recirculation of hot air within a cabinet. Supplied as a pack of fourteen plus fixings. One pack will blank off all of the cable apertures at the front or rear of a 42U or 45U 800mm wide cabinet. For use with all 42U or 45U 800mm wide open frame cabinets and standard 42U or 45U 800mm cabinet configurations.

Blanking Plates - Pack of 16

These blanking plates close off the window apertures that exist each side of the 19" panel mounts of 800mm wide cabinets. This is often needed to control the recirculation of hot air within a cabinet. Supplied as a pack of fourteen plus fixings. One pack will blank off all of the cable apertures at the front or rear of a 47U 800mm wide cabinet. For use with all 47U 800mm wide open frame cabinets and standard 47U 800mm cabinet configurations.

Side Mounted Cable Modules

The side cable modules will fit either to the left, right or between cabinets and provide a means off bringing in large volumes of cable without directly entering the cabinet itself. 1U spaced plastic fingers within the module allow the cable to be managed easily before passing through brush entry apertures to the 19" equipment area. This has the benefit of keeping the cabinet itself clear of unnecessary cable that would otherwise obstruct airflow within the cabinet. Additional 2U x 19" apertures are provided within the cable module to enable equipment such as 19" PDU's to be fitted. The 19" apertures are adjustable front and rear on a 25mm (1U) pitch depending on where the cable is to be managed and the depth of any 19" equipment added. 200mm wide cable modules will fit to a 600mm wide open frame cabinet thereby enabling 800mm doors to be fitted. Other versions of the cable module are available with separate doors fitted front and back and use the same handles / locks as the main body of the cabinet. Baying kits and horizontal baying trims are not required when using a side cable module. Standard cabinet side panels can be used with the cable modules.

Network Cabinets



Explanation of Cabinet Accessories

Bottom Blanking Plate

A bottom blanking plate when fitted to a cabinet ensures that air must be pulled through the front vented door, this can help to reduce re-circulation of air and is essential when a chimney top is fitted. For use with all 600mm wide x 1000mm deep standard cabinet configurations.

Extended Rear Door – Vented

The extended rear door can be used when an additional 50mm (2") of cabling space is needed at the rear of a cabinet. An infill panel is included to enable the door to be used when a 600 wide cabinet and 200mm side cable module has been specified. For use with all open frame cabinets and standard cabinet configurations.

600 Wide x 1000 Deep Chimney Top

The chimney top can help to dissipate up to 11KW of heat from within the cabinet, The chimney is telescopic to help reduce the risk of re-circulation of air. A plain door and bottom blanking plate should be fitted when using a chimney top panel. For use with all 600 wide x 1000 deep open frame server cabinets and standard 600 wide x 1000 deep server cabinet configurations.

Latch Bracket Kit

Latch bracket kits are required when doors are to be fitted to open frame cabinets. They act as the central latching point for single and three point latching doors. They are not required for three point latching doors if two point latching is sufficient. Supplied as a pair of brackets suitable for 600/800 or 1000 deep cabinets plus fixings. For use with all open frame cabinets.

Uniprise

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& A C C E S S O R I E S**

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Faceplates (Flush Mount)

LE Type Flush Mounted Faceplates

LE Type Faceplates are flush-mounted US standard plastic faceplates. They offer contoured edges for a contemporary appearance and are available in one, two, three, four and six port configurations. These plates will accept all CommScope UTP / STP modular information outlets for voice and data, as well as most fiber optic adapters and couplers .

The LE style plates are also compatible with CommScope's multimedia adapters and couplers. Mounting screws, label covers and label cards are included. Available in six colors.

Physical Specifications

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

LE Type Flush Mounted Faceplates

Catalog Number	Description	Dimensions	Color
M10LE-003	1 Port	Height: 2.84" (7.2 cm)	Black
M10LE-148	1 Port	Width: 4.81" (12.2 cm)	Almond
M10LE-215	1 Port	Depth: 0.33" (0.84 cm)	Cream
M10LE-246	1 Port		Ivory
M10LE-262	1 Port		White
M10LE-270	1 Port		Gray
M12LE-003	2 Port	Height: 2.84" (7.2 cm)	Black
M12LE-148	2 Port	Width: 4.81" (12.2 cm)	Almond
M12LE-215	2 Port	Depth: 0.33" (0.84 cm)	Cream
M12LE-246	2 Port		Ivory
M12LE-262	2 Port		White
M12LE-270	2 Port		Gray
M13LE-003	3 Port	Height: 2.84" (7.2 cm)	Black
M13LE-148	3 Port	Width: 4.81" (12.2 cm)	Almond
M13LE-215	3 Port	Depth: 0.33" (0.84 cm)	Cream
M13LE-246	3 Port		Ivory
M13LE-262	3 Port		White
M13LE-270	3 Port		Gray
M14LE-003	4 Port	Height: 2.84" (7.2 cm)	Black
M14LE-148	4 Port	Width: 4.81" (12.2 cm)	Almond
M14LE-215	4 Port	Depth: 0.33" (0.84 cm)	Cream
M14LE-246	4 Port		Ivory
M14LE-262	4 Port		White
M14LE-270	4 Port		Gray
M16LE-003	6 Port	Height: 2.84" (7.2 cm)	Black
M16LE-148	6 Port	Width: 4.81" (12.2 cm)	Almond
M16LE-215	6 Port	Depth: 0.33" (0.84 cm)	Cream
M16LE-246	6 Port		Ivory
M16LE-262	6 Port		White
M16LE-270	6 Port		Gray



M10LE-262



M12LE-270



M13LE-246



M14LE-270



M16LE-003

Faceplates (Flush Mount)

L Type Flush Mounted Modular Faceplates

L Type Faceplates are flush-mounted US standard plastic faceplates. They are available in one, two, three, four, six and eight port outlet configurations.

These plates will accept all CommScope UTP / STP modular information outlets for voice and data, as well as most fiber optic adapters and couplers.

The L Type plates are also compatible with CommScope's multimedia adapters and couplers. Mounting screws, label covers and label cards are included.

They are available in four colors.

Physical Specifications

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

L Type Flush Mounted Faceplates

Catalog Number	Description	Dimensions	Color
M10L-003	1 Port	Height: 2.81" (7.1 cm)	Black
M10L-246	1 Port	Width: 4.81" (12.2 cm)	Ivory
M10L-262	1 Port	Depth: 0.29" (0.7 cm)	White
M10L-270	1 Port		Gray
M10LW-246	1 Port Wall Mount Telephone		Ivory
M10LW-262	(3.28" lug spacing)		White
M12L-003	2 Port		Black
M12L-246	2 Port		Ivory
M12L-262	2 Port		White
M12L-270	2 Port		Gray
M12AP-246	2 Port (Vertical Alignment)		Ivory
M12AP-262	2 Port (Vertical Alignment)		White
M13L-003	3 Port		Black
M13L-246	3 Port		Ivory
M13L-262	3 Port		White
M13L-270	3 Port		Gray
M14L-003	4 Port		Black
M14L-246	4 Port		Ivory
M14L-262	4 Port		White
M14L-270	4 Port		Gray
M16L-003	6 Port		Black
M16L-246	6 Port		Ivory
M16L-262	6 Port		White
M16L-270	6 Port		Gray
M28L-003	8 Port (Double Gang)		Black
M28L-246	8 Port (Double Gang)		Ivory
M28L-262	8 Port (Double Gang)		White
M28L-270	8 Port (Double Gang)		Gray



M10L-246



M10LW-262



M12L-003



M13L-262



M14L-270



M16L-003



M28L-262

Faceplates (Flush Mount)

FP Type Flush Mounted Faceplate System

The FP Type (Flexible and Tamper resistant) Faceplate systems provide front access to support future moves, adds and changes without removing the faceplate frame from the wall. The FP system will accommodate all CommScope UTP/STP Information outlets for voice and data, adapters for Video and audio, as well as most fiber optic adapters and couplers. CommScope offers a broad selection of multimedia adapters/couplers that are compatible with the any of the FP system adapter housings and frames. In addition the faceplate frames will accommodate specially designed CommScope S-video, VGA and RCA bezels also offered in this section. The FP system allows the user to customize each specific application according to the media types and interface required.

Faceplates (Flush Mount)

FP Type (Flexible) Faceplate Frames

There are 2 major components that comprise the FP (Flexible) system:

- (1) Select a faceplate frame: Single gang (M13) "OR" double gang (M26)
- (2) Select the needed adapter housing(s): (M30FP) Adapter housings are offered in "unloaded" single port, dual port, or blanks. Specially designed adapter housings are also available that come pre-populated with S-video, VGA or a 3 port RCA.

- Flexible Faceplate Frames include: Faceplate Frame, Mounting screws, label covers and labels.
- Adapter housings, Information Outlets, Adapters and couplers, icons, and related accessories are ordered separately.
- Frames and Adapter Housings are available in four color choices.

Physical Specifications

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

FP Type (Flexible) Faceplate Frames

Catalog Number	Description	Dimensions	Color
M13FP-003	Flexible Faceplate - Single Gang Frame	Height: 4.81" (12.2 cm)	Black
M13FP-246	Flexible Faceplate - Single Gang Frame	Width: 2.84" (7.2 cm)	Ivory
M13FP-262	Flexible Faceplate - Single Gang Frame	Depth: 0.64" (1.6 cm)	White
M13FP-270	Flexible Faceplate - Single Gang Frame		Gray
M26FP-003	Flexible Faceplate - Double Gang Frame	Height: 4.81" (12.2 cm)	Black
M26FP-246	Flexible Faceplate - Double Gang Frame	Width: 4.61" (11.7 cm)	Ivory
M26FP-262	Flexible Faceplate - Double Gang Frame	Depth: 0.67" (1.7 cm)	White
M26FP-270	Flexible Faceplate - Double Gang Frame		Gray



Faceplates (Flush Mount)

FP Type (Tamper Resistant) Faceplate Frames

The FP Type (Tamper Resistant) Faceplate is a front access system designed to provide security to the connection points being made at the work space location.

It provides a degree of protection from intentional or inadvertent removal of the connection points at the faceplate with a secured transparent cover that allows for easy visual inspection. The Tamper Resistant Faceplate Frames are constructed so that the housings and subsequent outlets or adapters are positioned at a 45 degree downward angle, providing bend radius protection and strain relief on the cables and connection points. Optional graphical and color coded icons provide a means for color-coding on the faceplate frame for easy service identification. Each kit includes all necessary hardware for mounting the frame, in addition to a std. Philips head screw and Torx head screw to secure the protective cover.

There are two major components that comprise the FP (Tamper Resistant) system:

- (1) Select a faceplate frame kit: Std. profile (M13FP-TR) "OR" Low profile (M13FP-TR1)
- (2) Select the needed adapter housing(s): (M30FP) Adapter housings are offered in "unloaded" single port, dual port, or blanks. Specially designed adapter housings are also available that come pre-populated with S-video, VGA or a 3 port RCA.

- Tamper Resistant Frame kits include: Faceplate frame, Protective cover, All necessary mounting and security screws, label covers and label cards
- Frame Kits are available in a std. profile or low profile in two color choices
- Adapter housings, Information Outlets, Adapters and couplers, Icons, and related accessories are ordered separately.

FP Type (Tamper Resistant) Faceplate Frames Kits & Covers

Catalog Number	Description	Color
M13FP-TR-262	Faceplate Kit-Tamper Res. (Std.) (Single Gang)	White
M13FP-TR-246	Faceplate Kit-Tamper Res. (Std.) (Single Gang)	Ivory
M13FP-TR1-262	Faceplate Kit-Tamper Res. (Low Prof.) (Single Gang)	White
M13FP-TR1-246	Faceplate Kit-Tamper Res. (Low Prof.) (Single Gang)	Ivory
M13FP-TRC	Faceplate Cover-Tamper Res. (Std.) (Single Gang)	Clear
M13FP-TRC1	Faceplate Cover-Tamper Res. (Low Prof.) (Single Gang)	Clear



M13FP-TR-246
(Standard Profile)



M13FP-TR1-262
(Low Profile)

Faceplates (Flush Mount)

FP Type Adapter Housings

M30FP adapter housings are offered in empty 1 port, 2 port or solid blanks. Pre-populated adapter housings for audio and video are also available with S-video, VGA, and RCA adapters. M30FP adapter housing will accept all CommScope UTP/STP modular information outlets for voice and data, as well as, most fiber optic adapters and couplers.

Note: In addition to the FP system frames, the M30FP Type adapter housings are also compatible with all 200 series Surface Mounted Boxes.

RCA and S-Video (SVHS) Adapters for the flexible faceplate are front access adapters that will accommodate the flush mount S-Video Adapter and the 3-Port RCA Adapter. These adapters will easily snap into the flexible faceplate. The RCA Adapter uses a 110 IDC (Insulation Displacement Contact) block to directly terminate the 4-pair building wiring. RCA outlets are used for connecting audio and video appliances to 24 AWG UTP wiring.

The S-Video Adapter uses a 110 IDC block to directly terminate to 4-pair building wiring. The S-Video or Super VHS (SVHS) Modular Adapter provides baseband video connectivity to 24 AWG UTP wiring. These outlets provide point-to-point transmission of analog baseband National Television System Committee (NTSC)/Phase-Alteration Line (PAL)/SECAM S-Video signals.

FP Type Adapter Housings

Catalog Number	Description	Dimensions	Color
M30FP-1RJ45-246	Single Port Adapter	Height: 4.81" (12.2 cm)	Ivory
M30FP-1RJ45-262	Single Port Adapter	Width: 4.61" (11.7 cm)	White
M30FP-1RJ45-270	Single Port Adapter	Depth: 0.67" (1.7 cm)	Gray
M30FP-2RJ45-003	Double Port Adapter		Black
M30FP-2RJ45-246	Double Port Adapter		Ivory
M30FP-2RJ45-262	Double Port Adapter		White
M30FP-2RJ45-270	Double Port Adapter		Gray
M30FP-BLANK-003	Blank Adapter		Black
M30FP-BLANK-246	Blank Adapter		Ivory
M30FP-BLANK-262	Blank Adapter		White
M30FP-BLANK-270	Blank Adapter		Gray
M30FP-SVHS-110	Flush Mount S-VHS Adapter	Height: 4.81" (12.2 cm)	Black
M30FP-SVHS-110	Flush Mount S-VHS Adapter	Width: 4.61" (11.7 cm)	Ivory
M30FP-SVHS-110	Flush Mount S-VHS Adapter	Depth: 0.67" (1.7 cm)	White
M30FP-SVHS-110	Flush Mount S-VHS Adapter		Gray
M30FP-3RCA-110	3-Port RCA Adapter		Black
M30FP-3RCA-110	3-Port RCA Adapter		Ivory
M30FP-3RCA-110	3-Port RCA Adapter		White
M30FP-3RCA-110	3-Port RCA Adapter		Gray
M30FP-VGA-PT-262	M30FP VGA Adapter		White
M30FP-VGA-PT-270	M30FP VGA Adapter		Gray
M30FP-VGA-PT-003	M30FP VGA Adapter		Black
M30FP-VGA-PT-246	M30FP VGA Adapter		Ivory



M30FP-1RJ45-246



M30FP-2RJ45-246



M30FP-BLANK-246



M30FP-SVHS-110



M30FP-RCA-110



M30FP-VGA-PT-003

Faceplates (Flush Mount)

SP-L Type (Stainless Steel - Labeled) Faceplates

SP-L Type Faceplates are flush-mounted US standard stainless steel faceplates that provide a labeling feature. They are available in one, two, three, four, and six port outlet configurations.

These plates will accept all CommScope UTP / STP modular information outlets for voice and data, as well as a select group of fiber optic adapters and couplers .

The SP-L Type plates are also compatible with CommScope's multimedia adapters / couplers. Mounting screws, label covers and label cards are included.

SP-L Type Flush Mounted Faceplates

Catalog Number	Description	Dimensions
M11SP-L	1 Port with label field	Height: 4.50" (11.2 cm) Width: 2.75" (7.0 cm) Depth: 0.16" (0.4 cm)
M12SP-L	2 Port with label field	
M13SP-L	3 Port with label field	
M14SP-L	4 Port with label field	
M16SP-L	6 Port with label field	



M13SP-L



M16SP-L

Faceplates (Flush Mount)

SP Type (Stainless Steel) Faceplates

SP Type Faceplates are flush-mounted US standard stainless steel faceplates. They are available in one, two, three, four and six port outlet configurations.

These plates will accept all CommScope UTP / STP modular information outlets for voice and data, as well as a select group of fiber optic adapters and couplers .

The SP style plates are also compatible with CommScope's multimedia adapters / couplers. Mounting screws are included.

SP Type Flush Mounted Faceplates

Catalog Number	Description	Dimensions
M12SP	2 Port	Height: 4.50" (11.2 cm) Width: 2.75" (7.0 cm) Depth: 0.16" (0.4 cm)
M13SP	3 Port	
M14SP	4 Port	
M16SP	6 Port	
M10LW	1 port wall phone plate (3.28" lug spacing)	
630B8	Wall phone plate kit with voice module (4" lug spacing)	



M14SP



M10LW

Specialty Faceplates & Mounting Frames

MMFP Type Flush Mounted Multimedia Faceplate

The M10MMFP faceplate provides the opportunity to deploy copper and fiber media to the workstation for new and existing installations. The product enables you to fasten a flush mount faceplate (i.e. M12L, M14L, M12LE, M14LE, etc.) to the front of the unit—for installation of up to 6 copper CommScope information outlets and provides alternatives for fiber connectors installed vertically at the base of the product. It may be configured with ST, SC or LC adapters in various densities.

Adapter plates are provided for use with the SC duplex, LC duplex or the high-density modular adapter strips available for ST, SC and LC connectors. The plates can be installed either right at the base (exposed) or recessed in unit, providing additional protection for the fibers. Additionally, the fiber adapter strips provide high-density capability for customer applications.

The M10MMFP incorporates fiber slack storage to manage fiber termination. The M10MMFP also features either rear (4) or side (2) entry ports for cabling, providing flexibility for either wall-mount or raceway installs.

The attractive cover snaps onto the base, providing protection for the fiber connections. The cover also provides labeling features such as a paper label for circuit identification and plastic icon strips (in 9 colors). In addition, the cover may be attached to the base with the screws, affording tamper resistance.

The M10MMFP Multimedia Faceplate includes: 1 multimedia unit (cover and base); 3 Fiber Adapter Plates- SC Adapter Plate, LC Adapter Plate and Plate for SC, ST or LC adapter strips; 1-1/4 in truss head screws; K35 by 12 mm pan head Phillips PT® screws; label; clear plastic label cover; installation instructions; plastic icon strips in 9 colors (gray, blue, yellow, orange, red, white, brown and purple).

MMFP Type Flush Mounted Multimedia Faceplate

Catalog Number	Description	Dimensions	Color
M10MMFP-246	Multimedia	Height: 4.50" (11.2 cm)	Ivory
M10MMFP-262	Multimedia	Width: 2.75" (7.0 cm)	White
M10MMFP-270	Multimedia	Depth: 0.16" (0.4 cm)	Gray



M10MMFP-246

Specialty Faceplates & Mounting Frames

Mounting Frames

The M105, M106 and M108 Modular Mounting Frames are flush mounted multi-outlet modular mounting frames designed for use with all CommScope modular information outlets. The 105 and 106 series mount behind a standard 106 NEMA faceplate. 108 series frames mount behind standard Decora electrical faceplates.

Physical Specifications

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

Mounting Frames

Catalog Number	Description	Dimensions	Color
M105FR1-246	1 Port	Height: 4.10" (10.4 cm)	Ivory
M105FR1-262	1 Port	Width: 1.75" (4.4 cm)	White
M105FR1-270	1 Port	Depth: 0.50" (1.3 cm)	Gray
M106FR2-003	2 Port		Black
M106FR2-246	2 Port		Ivory
M106FR2-262	2 Port		White
M106FR2-270	2 Port		Gray
M106FR4-003	4 Port	Height: 2.81" (7.1 cm)	Black
M106FR4-246	4 Port	Width: 4.81" (12.2 cm)	Ivory
M106FR4-262	4 Port	Depth: 0.29" (0.7 cm)	White
M106FR4-270	4 Port		Gray
M108FR1-148	1 Port*	Height: 3.93" (10.0 cm)	Almond
M108FR1-003	1 Port*	Width: 1.40" (3.6 cm)	Black
M108FR1-246	1 Port*	Depth: 0.29" (0.7 cm)	Ivory
M108FR1-262	1 Port*		White
M108FR1-270	1 Port*		Gray
M108FR3-148	3 Port	Height: 3.93" (10.0 cm)	Almond
M108FR3-003	3 Port	Width: 1.40" (3.6 cm)	Black
M108FR3-246	3 Port	Depth: 0.29" (0.7 cm)	Ivory
M108FR3-262	3 Port		White
M108FR3-270	3 Port		Gray

* Denotes Decora Mounting Frame



M106FR4-003

Specialty Faceplates & Mounting Frames

Mounting Frame (Extron Cable Cubby®)

The CommScope 6 Port Adapter Plate for Extron Enclosure Applications allows the user to integrate any CommScope information outlet, adapter or coupler into an Extron Cable Cubby type enclosure. The metal adapter plate features a snap-in plastic bezel and four K-Lock nuts to secure the unit inside the enclosures.

Using the CommScope adapter plates in unison with the Extron Cable Cubby extends the choices of audio, video, and data connections to the user work space in an enclosed and very aesthetically pleasing manner. Typical environments that benefit from this combination of products would range from commercial office or educational facilities, as well as high-end residential and retail spaces.



MFR6-EXT-003

Catalog Number	Description
MFR6-EXT-003	6 Port Adapter Plate for Extron Enclosure Applications

Specialty Faceplates & Mounting Frames



MMO Type Flush Mounted (Angled) Faceplate

This 4-Port faceplate is designed to mount on a wall surface and will fit any standard National Electrical Manufacturers Association (NEMA) electrical box. The flush mounted faceplate has 45 degree angular ports for fiber and copper connectors and has a protective angled hood. The hinged base of the faceplate allows changes and maintenance to occur without reinstalling the faceplate. The fiber organizer spool bend-radius provides control and storage for fiber slack.

This faceplate can be used in the following environments:

- In an ALL COPPER environment, the 4-Port Flush Mount Faceplate will support up to four CommScope information outlets, four LC mounting modules, or up to two CommScope information outlets or adapters. When fiber is introduced into the application, the number of ports available for connectors is reduced by one
- In an ALL FIBER environment, the M14MMO will support two simplex ST or SC connectors, four LC connectors, or two duplex SC connectors
- In an integrated FIBER/COPPER environment, the 4-Port Flush Mount Faceplate will support one CommScope information outlet and two simplex SC or ST connectors, or one CommScope information outlet and one duplex SC connector

Physical Specifications

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

MMO Type Flush Mounted (Angled) Faceplate

Catalog Number	Description	Dimensions	Color
M14MMO-003	4 Port	Height: 5.69" (14.5 cm)	Black
M14MMO-246	4 Port	Width: 3.28" (8.30 cm)	Ivory
M14MMO-262	4 Port	Faceplate Depth: 1.29" (3.3 cm)	White
M14MMO-270	4 Port	Hood & Faceplate Depth: 2.77" (7.0 cm)	Gray
		Hood, Faceplate & Spool Depth: 5.30" (13.5 cm)	



M14MMO-246

Furniture Faceplates

M4CA Type (Adjustable) Furniture Faceplate

M4CA faceplate is designed for modular furniture applications requiring either fiber and/or copper connectivity. The M4CA will accommodate up to 4 CommScope information outlets or adapters. The M4CA will also accommodate 4 fiber modular telecommunications outlets such as the “LC couplings and jumpers for modular furniture” within TIA standard cavity depth of 1.2 inch minimum. The angle mount fiber jumper assemblies may also be used with this faceplate.

Modular office furniture manufacturers have used a wide range of panel openings for their data and voice outlets. The M4CA will adjust to fit many of these. It may be mounted on any flat surface with a material thickness of 0.025 in to 0.125 in (0.63 mm to 3.18 mm). It may be easily installed in any rectangular opening size ranging from 1.7 in high by 2.792 in wide (4.32 cm x 7.09 cm) to 2.375 in high by 4.125 in wide (6.03 cm x 10.48 cm).

The surface finish is the same as that used on the LE series faceplates. Each M4CA kit includes frame, cover, latch bars (shipped attached to the frame) and a paper label that may be used for identification of each port, along with a protective clear plastic label cover.



M4CA-262

Physical Specifications

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

M4CA Type (Adjustable) Furniture Faceplate

Catalog Number	Description	Dimensions	Color
M4CA-003	4 Port	Height: 2.98" (7.6 cm)	Black
M4CA-262	4 Port	Width: 4.73" (12.0 cm)	White
M4CA-246	4 Port	Depth: 0.5" (1.3 cm)	Ivory
M4CA-270	4 Port		Gray

Furniture Faceplates

M26C Type Furniture Faceplate

The M26C Modular Furniture Six Port Faceplate is a flush mounted faceplate designed to snap into modular furniture raceway covers. The M26C holds up to six CommScope information outlets or adapters. Both sides of the faceplate are numbered for easy installation and maintenance identification. The M20AP dust cover/blank can be used to protect unused outlets and cover unused faceplate openings. Fits modular furniture knock-out size 1.374 in (3.49 cm) high x 5.251 in (13.34 cm) wide.

Physical Specifications

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

M26C Type Furniture Faceplate

Catalog Number	Description	Dimensions	Color
M26C-246	6 Port	Height: 1.9" (4.8 cm)	Ivory
		Width: 5.6" (14.2 cm)	
		Depth: 0.5" (1.3 cm)	

Furniture Faceplates

M13C/M13CLS Type Furniture Faceplates

The M13C and M13CLS Modular Furniture Triplex Outlet Faceplates are flush mounted triplex modular faceplates designed to fit modular furniture raceway covers for the following SteelCase furniture lines: (E)9000, Segment (with correct bezel), Answer, Montage, Avenir, Elective Elements and Context. The M13C holds up to three CommScope information outlets and has numbering on both sides of the faceplate for installation and maintenance identification. The M13C Faceplate is used in an opening size of 1.38 inches (35.1 mm) in height and 2.71 inches (68.8 mm) in width (dimensions are +/- .01 in).

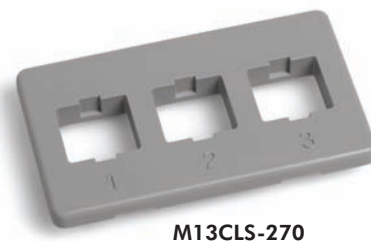
The M13CLS Faceplate is part of the LazrSPEED Solution and it holds modules that snap in vertically and can also be angled. The M13CLS Faceplate is used in an opening size of 1.375 in +/- 0.025 in (34.93 mm +/- 0.64 mm) in height and 2.700 in +/- 0.050 in (68.58 mm +/- 1.27 mm) in width.

Physical Specifications

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

M13C/M13CLS Type Furniture Faceplates

Catalog Number	Description	Dimensions	Color
M13C-003	3 Port	Height: 1.84" (4.7 cm)	Black
M13C-246	3 Port	Width: 3.13" (7.9 cm)	Ivory
M13C-262	3 Port	Depth: 0.29" (0.7 cm)	White
M13C-270	3 Port		Gray
M13CLS-003	3 Port		Black
M13CLS-246	3 Port		Ivory
M13CLS-262	3 Port		White
M13CLS-270	3 Port		Gray



M13CLS-270



M13CLS-270

Furniture Faceplates

M13HM Type Furniture Faceplate

The M13HM faceplate is designed to fit to the data communications opening in the Herman-Miller Action Office System series of modular furniture.

The M13HM will accommodate three CommScope information outlets or adapters. Above the port openings is space for a paper label insert with a clear plastic label holder (included). Mounting clips are molded within the M13HM faceplate. No screws required for mounting and securing the faceplate to the opening.

M13HM Type Furniture Faceplate

Catalog Number	Description	Dimensions	Color
M13HM-003	3 Port	Height: 2.13" (5.5 cm)	Black
M13HM-246	3 Port	Width: 3.5" (8.8 cm)	Ivory
M13HM-262	3 Port	Depth: 0.25" (0.65 cm)	White
M13HM-270	3 Port		Gray

Furniture Faceplates



M14C Type Furniture Faceplates

The M14 Series Modular Furniture 4 port faceplates hold up to four CommScope information outlets or M81-Series Mounting Modules. Both sides of the faceplate are numbered for easy installation and maintenance identification.

The M14C Faceplate is a flush mounted modular faceplate designed to fit the Knoll, Inc. line of modular furniture raceway covers. Packaged with two color coordinated M20AP dust cover/blanks to cover unused ports. The M14C Faceplate is used in an opening size of 1.609 inches in height and 3.358 inches in width (dimensions are +/- .01 inch).

The M14CE faceplate is designed to fit SteelCase modular furniture and is used in an opening size of 1.38 in (3.51 cm) in height and 2.71 in (6.88 cm) in width.

The M14CH Faceplate is a flush mounted modular faceplate designed to fit the Herman-Miller-Ethospace beltline modular furniture raceway covers. The M14CH Faceplate is used in an opening of 1.750 inches in height and 2.832 inches in width (dimensions are +/- 0.005 in).

Physical Specifications

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

M14C Type Furniture Faceplates

Catalog Number	Description	Dimensions	Color
M14C-003	4 Port	Height: 2.11" (5.4 cm)	Black
M14C-262	4 Port	Width: 4.07" (10.3 cm)	White
M14C-270	4 Port	Depth: 0.53" (1.3 cm)	Gray
M14C-148	4 Port		Almond
M14CE-003	4 Port	Height: 2.16" (5.5 cm)	Black
M14CE-246	4 Port	Width: 4.07" (10.3 cm)	Ivory
M14CE-262	4 Port	Depth: 1.27" (3.2 cm)	White
M14CE-270	4 Port		Gray
M14CH-003	4 Port	Height: 2.0" (5.1 cm)	Black
M14CH-246	4 Port	Width: 3.13" (7.9 cm)	Ivory
M14CH-262	4 Port	Depth: 0.38" (1.0 cm)	White
M14CH-270	4 Port		Gray



M14C-003



M14CE-262



M14CH-246

Furniture Faceplates

M30MC Mounting Collar

The M30MC Mounting Collar is designed to fit into a rectangular opening. The width of the opening will always be 0.763 inch (19.38 mm). However, the height of the opening is variable based on the thickness of the material into which the collar is pressed. The material thickness is restricted to the range, 0.025 inch to 0.125 inch (0.64 mm to 3.17 mm).

The M30MC collar supports a single voice or data outlet or any M81 series adapter or coupler.

Physical Specifications

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

M30MC Mounting Collar

Catalog Number	Dimensions	Color
M30MC-003	Height: 1.00" (2.5 cm)	Black
M30MC-246	Width: 1.03" (2.6 cm)	Ivory
M30MC-262	Depth: 0.46" (1.2 cm)	White
M30MC-270		Gray



M30MC-246

Furniture Faceplates

M30CC Mounting Collar

The M30CC Circular Collar is a plastic circular collar designed to support CommScope information outlets. The M30CC can be used in furniture such as a desk or cabinet, on a flat wall panel, or on a flat metal panel. The supporting panel or wall structure must be between 0.04 in. and 0.13 in (0.1 cm and 0.32 cm) in thickness, inclusively.

The M30CC collar supports a single voice or data outlet or any M81series adapter or coupler.

Physical Specifications

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

M30CC Mounting Collar

Catalog Number	Dimensions	Color
M30CC-246	Outside Diameter: 1.60" (4.1 cm)	Ivory
	Depth: 0.50" (1.3 cm)	



M30CC-246

Surface Mounted Boxes

M40 Surface Mounted Box and Accessories

The M40 is a surface-mounted plastic enclosure designed to support a copper/fiber intergrated environment, an all copper environment or an all fiber environment.

The M40 design makes it versatile by utilizing removable panel inserts allowing termination of copper, fiber or composite cables. Panels are available to hold CommScope information outlets or adapters, ST, SC and LC adapters.

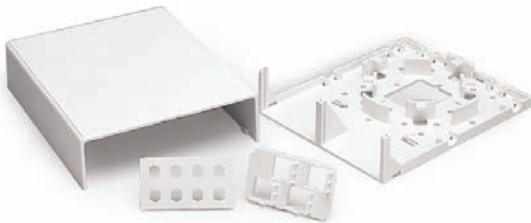
The M40 outlet comes equipped with one M40RJ4A and one M40ST8 panel. Other panels and accessories must be ordered separately.

Physical Specifications

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

M40 Surface Mounted Box and Accessories

Catalog Number	Description	Dimensions	Color
M40A1-B-262	Surface Box with M40RJ4A and M40ST8	Height: 6.88" (17.5 cm)	White
M40ST8-B-262	Insert Panel Holds 8 ST Couplings	Width: 5.79" (14.7 cm)	White
M40DSC4-B-262	Insert Panel Holds 4 Duplex SC Couplings	Depth: 1.70" (4.3 cm)	White
M40R-J2-246	Insert Panel Holds 4 RJ45 Jacks		White
M40RJ4A-262	Insert Panel Holds 4 RJ45 Jacks, 4 M81 Mounting Modules		White
M40ST4-262	Insert Panel Holds 4 ST Couplings		White



M40A1-B-262

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Surface Mounted Boxes

M101 Type Surface Mounted Box

The M101SMB Modular Surface-Mount Box is designed for use with one modular information outlet (copper or fiber). It can be mounted on a flat surface using the screws or the double-sided adhesive tape provided. This unit will accept 22-26 gauge cable.

Physical Specifications

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

M101 Type Surface Mount Box

Catalog Number	Dimensions	Color
M101SMB-B-003	Height: 2.26" (5.7 cm)	Black
M101SMB-B-246	Width: 1.22" (3.1 cm)	Ivory
M101SMB-B-262	Depth: 1.29" (3.3 cm)	White
M101SMB-B-270		Gray



M101SMB-B-270

Surface Mounted Boxes

M102 Type Surface Mounted Box

The M102SMB Modular Surface-Mount Box is a modular surface-mounted duplex box designed for use with one or two CommScope modular information outlets (copper and/or fiber). It can be mounted on a flat surface using the screws or the double-sided adhesive tape provided. This unit will accept 22-26 gauge cable.

Physical Specifications

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

M102 Type Surface Mount Box

Catalog Number	Dimensions	Color
M102SMB-B-003	Height: 2.26" (5.7 cm)	Black
M102SMB-B-246	Width: 2.06" (5.2 cm)	Ivory
M102SMB-B-262	Depth: 1.29" (3.3 cm)	White
M102SMB-B-270		Gray



M102SMB-B-262

Surface Mounted Boxes

M104 Type Surface Mount Box

The M104SMB Modular Surface-Mount Box is a modular multimedia surface-mounted 4 port box designed for use with one to four modular jacks (copper and/or fiber). The M104SMB can be mounted on a flat surface using the screws or the double-sided adhesive tape provided. One mounting magnet kit is required for mounting on steel walls or furniture.

The outlet openings are numbered on both the base and cover for installation and maintenance identification. The M104SMB is packaged with three color-coordinated M20AP Dust Covers/Blanks to cover any unused jacks. This unit will accept 22-26 gauge cable.

Physical Specifications

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

M104 Type Surface Mount Box

Catalog Number	Dimensions	Color
M104SMB-A-003	Height: 2.83" (7.2 cm)	Black
M104SMB-A-246	Width: 3.92" (10.0 cm)	Ivory
M104SMB-A-262	Depth: 1.20" (3.0 cm)	White
M104SMB-A-270		Gray

Surface Mounted Boxes

M106 Type Surface Mount Box

The M106SMB Modular Surface-Mount Box is a modular multimedia surface-mounted 6 port box designed for use with one to six modular jacks (copper and/or fiber). It is used to terminate 25-pair Category 5 cable at the transition point or to terminate 4-pair wiring in the work location subsystem or to terminate 4 strands of fiber. The M106SMB can be mounted on a flat horizontal surface or on a wall using two mounting screws, double-sided sticky tape or magnets.

The M106SMB has a storage device/area for storing unterminated copper conductors.

Physical Specifications

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

M106 Type Surface Mount Box

Catalog Number	Dimensions	Color
M106SMB-003	Height: 5.49" (13.9 cm)	Black
M106SMB-246	Width: 4.81" (12.2 cm)	Ivory
M106SMB-262	Depth: 1.22" (3.1 cm)	White
M106SMB-270		Gray

Surface Mounted Boxes

M112 Surface Mount Box

The M112SMB Modular Surface-Mount Box is a 12-Port modular multimedia surface-mounted box designed for use with 1 to 12 modular jacks and/or fiber modules. The M112SMB can be mounted on a flat surface using the screws or the double-sided adhesive tape provided. Four mounting magnets (optional) are required for mounting on steel walls or furniture. The M112SMB is packaged with six color-coordinated M20AP Dust Cover/Blanks to cover any unused jacks. The outlet openings are numbered on both the base and cover for installation and maintenance identification.

Physical Specifications

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

M112 Type Surface Mount Box

Catalog Number	Dimensions	Color
M112SMB-003	Height: 9.13" (23.2 cm)	Black
M112SMB-246	Width: 4.81" (12.2 cm)	Ivory
M112SMB-262	Depth: 1.30" (3.3 cm)	White
M112SMB-270		Gray



M112SMB-246

Surface Mounted Box Accessories

Accessories For Surface Mount Boxes (100 Series)

The SMBFG fiber organizer has a small spindle to protect and support the fiber bend radius and two guides to route the fiber to the connector. It supports up to four fibers in an all-fiber environment in the M106SMB modular surface-mount box and supports up to six fibers in an all-fiber environment in the M112SMB modular surface-mount box.

The 345A mounting magnet contains two magnets and is used with the M104SMB modular surface-mount box.

The 362PS zone wiring kit labels are used with the M106SMB and M112SMB modular surface-mount boxes.

The D180880 mounting magnet kit contains four magnets and is used with the M106SMB and M112SMB modular surface-mount boxes.

Catalog Number	Description
SMBFG	Fiber Organizer
345A	Mounting Magnet
362PS	Zone Wiring Kit Labels
D180880	Mounting Magnet Kit

Surface Mounted Boxes

M200 Surface Mount Boxes

200 Series Surface Mount Boxes are designed for interior surface-mount applications and can support copper and fiber terminations. All information outlets simply snap into place. The 2, 4, and 8-port boxes are UL-rated and available in four standard colors.

The 200 series surface mount boxes can support new generation, larger diameter data cables, and offer multiple cable entrances through the base and/or sides.

The 200 series surface mount boxes are equipped with the corresponding number of dust covers and two port adapter housings. These adapter housings support two outlets each. A variety of other adapters are available but not included to configure LC, ST and SC fiber couplers, copper outlets, VGA, S-Video, Coax, BNC, and RCA couplers.

Features

- Support a wide range of applications and configurations using the following snap-in components: 8 Position Modular Outlets; S-Video Outlets; VGA Adapters; RCA Adapters; BNC Adapters; Coaxial Couplers
- Can support new generation, larger diameter data cables
- Cable entrances available through the base and/or sides
- Can mount to solid surfaces or single gang electrical boxes
- Easy front access to outlets, adapters and couplers
- Includes dust covers, cable ties, labels/label holders, adhesive backed velcro, double sided tape and screws
- Comes with label and label cover as well as a smooth surface for labeling the front of the enclosure
- Snap-in fiber spool is included to assist with fiber management (does not apply to the M202SMB and M204ASMB)
- Material: Plastic

Applications

- Consolidation point for zone wiring
- High speed data applications where larger cables are required (10G)
- Multimedia applications using copper, fiber and coaxial
- Utilized on kick plates for modular office furniture
- Plenum version for wireless access points and IP cameras

M200 Surface Mount Boxes

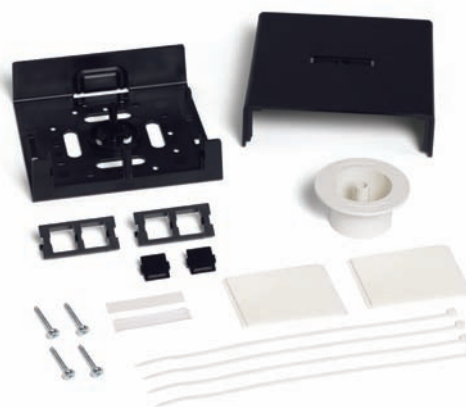
Catalog Number	Description	Color
M202SMB-003	2 Port Surface Mount Box	Black
M202SMB-262	2 Port Surface Mount Box	White
M202SMB-246	2 Port Surface Mount Box	Ivory
M202SMB-270	2 Port Surface Mount Box	Gray
M202 Plenum SMB-262	2 Port Surface Mount Box	White
M204ASMB-003	4-Port Surface-Mount Box	Black
M204ASMB-262	4-Port Surface-Mount Box	White
M204ASMB-246	4-Port Surface-Mount Box	Ivory
M204ASMB-270	4-Port Surface-Mount Box	Gray
M204SMB-003	4-Port Surface-Mount Box	Black
M204SMB-246	4-Port Surface-Mount Box	Ivory
M204SMB-262	4-Port Surface-Mount Box	White
M204SMB-270	4-Port Surface-Mount Box	Gray
M208SMB-003	8-Port Surface-Mount Box	Black
M208SMB-262	8-Port Surface-Mount Box	White
M208SMB-246	8-Port Surface-Mount Box	Ivory
M208SMB-270	8-Port Surface-Mount Box	Gray



M208SMB-246



M202SMB-003



M204SMB-003

Zone Boxes

M224 Type Zone Box

The new low profile M224CPN Consolidation Box is introduced as an enhancement to the zone wiring architecture.

This product provides a connection and distribution point for data and telecom cables in installations requiring a consolidation point. The slim design permits installation in a variety of non-plenum spaces such as under floors, limited space closets, inside paneled furniture, on walls in plain view and on shelves. The box can be mounted, with additional support, to single- or dual-gang electrical type boxes. For best results, the box is mounted on a flat surface, horizontally or vertically. The new M224CPN is substantially smaller than the M36P (36-Port plenum) box, only 27% of the box volume and 36% of the box area.



M224CPN-246

The box design utilizes four removable panels that can accommodate a variety of copper and fiber based connectors. Each panel will hold up to six connectors each. The box has a capacity of 24 dual SC connectors, single SC connectors, dual LC connectors, ST connectors, copper outlets, S-Video, RCA, BNC and F-type video connectors, or any combination thereof. Connector types can be mixed and matched within the box by using two different panels. The box comes equipped with four 6-port inserts, two blank inserts, 12 dust covers for port openings, closing screws, wire ties, and instructions.

This panel has the most variety in connector options; it accommodates all but the dual SC connectors. Three fiber optic splice organizers are available which will accommodate fusion, mechanical or mass fusion splices.

Features

- Non-metallic housing
- 24-Port capacity
- Accommodates copper information outlets, fiber connectors and copper and fiber terminations
- Can be populated with any CommScope voice, data or video outlet
- Expandable/Stackable features
- Easy access for terminations and moves, adds and changes
- Designed for mounting in various non-plenum environments (i.e., on the floor, under floor tile, surface-mount, wall, furniture, inside cabinets)
- Supports cable/port labeling
- Equipped with removable cover section for cord/label access that does not expose horizontal cables/terminations

Physical Specifications

Burn Rating: Non-plenum

M224 Type Zone Box

Catalog Number	Description	Dimensions	Color
M224CPN-003	Box Base Cover, 4 Six Port Panels, 2 Blank Panels	Height: 12.14" (30.8 cm)	Black
M224CPN-246	Box Base Cover, 4 Six Port Panels, 2 Blank Panels	Width: 8.45" (21.5 cm)	Ivory
M224CPN-270	Box Base Cover, 4 Six Port Panels, 2 Blank Panels	Depth: 1.44" (3.7 cm)	Gray
M224CPN-262	Box Base Cover, 4 Six Port Panels, 2 Blank Panels		White
M224MSP-003	Panel Kit Includes 4 Six Port Panels of One Color		Black
M224MSP-246	Panel Kit Includes 4 Six Port Panels of One Color		Ivory
M224MSP-262	Panel Kit Includes 4 Six Port Panels of One Color		White
M224MSP-270	Panel Kit Includes 4 Six Port Panels of One Color		Gray
M224SCP-003	Panel Kit Includes 4-Dual SC Panels of One Color		Black
M224SCP-246	Panel Kit Includes 4-Dual SC Panels of One Color		Ivory
M224SCP-262	Panel Kit Includes 4-Dual SC Panels of One Color		White
M224SCP-270	Panel Kit Includes 4-Dual SC Panels of One Color		Gray
M224FOS-262	Fiber Optic Spool Kit Includes 2 White Spools		White

Zone Boxes

M36CPP Type Zone Box

The M36CPP Data/Communication Distribution Box is a zone wiring box (i.e. consolidation point [CP]) that provides for the distribution of data and telecommunication signals throughout the work area environment. The box has 36 positions for copper and/or fiber connectors. It is intended to mount above ceilings or below floors in open office buildings.

The key benefit is that it saves costs in moves, adds and changes (MACs) when zone cabling is required in a plenum environment. The Box is UL Listed to meet the stringent plenum requirements. The National Electric Code allows locating this type of zone box in space used for environmental air.

The M36CPP Distribution Box Assembly comes with: connector bracket, plenum cover, plenum box, foam fence, fiber reel (optional to use), foam retainer, bushing (optional to use), fire foam, interconnection label, installation instructions, hex nut (No. 4-40), long pan-head screw (No. 8-32 by 3/38 in [9.5 mm]) and plenum cable tie.

M36CPP Type Zone Box

Catalog Number	Description	Dimensions
M36CPP DATA	36-Port Zone Wiring Box	Height: 19.12" (48.6 cm) Width: 14.14" (35.9 cm) Depth: 1.82" (4.6 cm)



M36CPP DATA

Zone Boxes

M48CPP Type Zone Box

The 48-Port Plenum Zone Wiring Box provides a connection and distribution point for data and telecom cables in installations requiring a consolidation point. The design includes a 3.35 in x 2.566 in (85.04 mm x 65.18 mm) rectangular bottom knockout to be used in conjunction with a standard dual-gang electrical box, in addition to twelve 0.75 in (19.05 mm) knockouts for use with conduit.

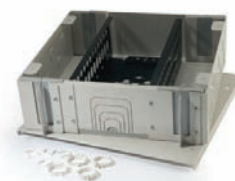
The size of the M48CCP design will allow installation in a variety of plenum spaces such as under floors and above ceilings. The design has 48 positions that accommodate a variety of copper, fiber and video connectors. It also has one fire foam entrance and four fire foam exit areas for plenum-rated cable (4-pair and 25-pair).

Features

- 48-port capacity
- Support copper outlets, fiber connectors, copper and fiber terminations
- Easy access for terminations, moves, adds and changes
- Designed for mounting in various plenum and non-plenum environments (floor, under floor, surface mount or wall)
- Supports cable/port labeling
- Equipped with removable cover section for cord/label access and does not expose horizontal cables

M48CPP Type Zone Box

Catalog Number	Description	Dimensions
M48CPP	48-Port Zone Wiring Box	Height: 13.08" (33.2 cm)
110C Connecting Block	110C Connecting Block Kit for Plenum Box	Width: 14.0" (35.6 cm) Depth: 4.25" (10.8 cm)



M48CPP

Accessories

L, LE and FP Type Faceplate Labels and Label Covers

Labels are on 8-1/2 x 11 inch sheets of paper that are to be used with a printer. The labels are easy to punch out since the paper is perforated in the shape of the labels. The clear label covers protect and hold the labels in place.

L, LE and FP Type Faceplate Labels and Label Covers

Catalog Number	Package	Min. Order Quantity
108492927	L-Type faceplate label cover	5 pkgs, 100 covers per pkg.
108492935	LE/FP-Type faceplate label cover	5 pkgs, 100 covers per pkg.
108492943	L-Type faceplate label card sheet	50 pkgs, 10 sheets per pkg.
108492950	LE/FP-Type faceplate label card sheet	50 pkgs, 10 sheets per pkg.

Accessories

M20/M21/M81 Dust Covers

The M20AP Covers are dual-purpose blank Dust Covers designed for use with the modular outlets and modular faceplate kits (except for the Shuttered clips and Benelux faceplates). When the M20AP is used as a Dust Cover, it is inserted over the outlet opening and will protect the jack wires from dust. The M20AP can also be used with modular faceplates as a blank cover for empty jack openings which are not populated with modular outlets.

The M21A Dust Covers are for use with CommScope information outlets. The M21A installs over the Jack opening of the outlet, leaving the Icon area visible.

The M20AP and the M21A are packaged 100 to a bag with 5 bags in a box.

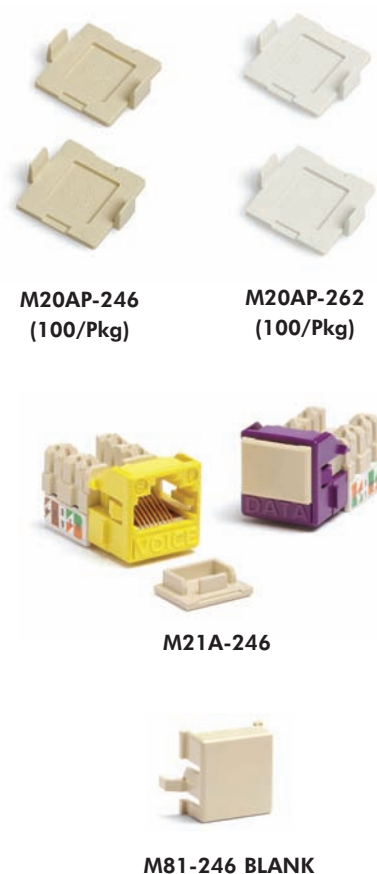
The M81 (Blank) is a rear snap-in dust cover to fill empty or unused ports in all CommScope f-plates, surface and multi-media boxes, Mod style panels or related mounting housings where you would normally deploy an outlet or adapter.

Physical Specifications

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

M20/M21/M81 Dust Covers

Catalog Number	Dimensions	Color
M20AP-003	Height: 0.69" (1.8 cm)	Black
M20AP-246	Width: 0.75" (1.9 cm)	Ivory
M20AP-262	Depth: 0.20" (0.05 cm)	White
M20AP-270		Gray
M20AP-215		Cream
M20AP-148		Almond
M21A-003		Black
M21A-112		Orange
M21A-123		Yellow
M21A-226		Green
M21A-246		Ivory
M21A-262		White
M21A-270		Gray
M21A-317		Red
M21A-318		Blue
M21A-361		Violet
M21A-215		Misty Cream
M81-003 (BLANK)	Height: 0.69" (17 mm)	Black
M81-246 (BLANK)	Width: 0.69" (17 mm)	Ivory
M81-262 (BLANK)	Depth: .514" (13 mm)	White
M81-270 (BLANK)		Gray



Accessories



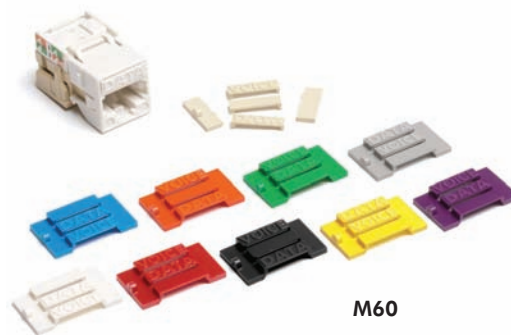
M60/M61 Icon Inserts

The M60 and M61 ICONs are small plastic inserts used to depict applications of specific jacks on the CommScope information outlets. The ICONs are packaged 25 in a polybag, and 20 polybags in a box.

- Telephone—symbol representing a telephone application
- Computer—symbol representing a computer application
- DATA—word representing a data application
- VOICE—word representing a voice application
- Blank—has blank space for writing or denoting any application the user may designate or require

M60/M61 Icon Inserts

Catalog Number	Description	Color
M60A-003	Telephone ICON	Black
M60A-112	Telephone ICON	Orange
M60A-123	Telephone ICON	Yellow
M60A-246	Telephone ICON	Ivory
M60A-262	Telephone ICON	White
M60A-270	Telephone ICON	Gray
M60A-317	Telephone ICON	Red
M60A-318	Telephone ICON	Blue
M60B-003	Blank ICON	Black
M60B-112	Blank ICON	Orange
M60B-123	Blank ICON	Yellow
M60B-226	Blank ICON	Green
M60B-246	Blank ICON	Ivory
M60B-262	Blank ICON	White
M60B-270	Blank ICON	Gray
M60B-317	Blank ICON	Red
M60B-318	Blank ICON	Blue
M60C-112	Computer ICON	Orange
M60C-123	Computer ICON	Yellow
M60C-226	Computer ICON	Green
M60C-246	Computer ICON	Ivory
M60C-262	Computer ICON	White
M60C-270	Computer ICON	Gray
M60C-317	Computer ICON	Red
M60C-318	Computer ICON	Blue
M60D-003	DATA ICON	Black
M60D-112	DATA ICON	Orange
M60D-123	DATA ICON	Yellow
M60D-226	DATA ICON	Green
M60D-246	DATA ICON	Ivory
M60D-262	DATA ICON	White
M60D-270	DATA ICON	Gray
M60D-317	DATA ICON	Red
M60D-318	DATA ICON	Blue
M60E-003	Voice ICON	Black
M60E-112	Voice ICON	Orange
M60E-123	Voice ICON	Yellow
M60E-226	Voice ICON	Green
M60E-246	Voice ICON	Ivory



M60

Catalog Number	Description	Color
M60E-262	Voice ICON	White
M60E-270	Voice ICON	Gray
M60E-317	Voice ICON	Red
M60E-318	Voice ICON	Blue
M60M-148	Voice/Computer/Telephone ICON	Almond
M61K-003	Icon for MGS400	Black
M61K-112	Icon for MGS400	Orange
M61K-123	Icon for MGS400	Yellow
M61K-215	Icon for MGS400	Misty Cream
M61K-226	Icon for MGS400	Green
M61K-246	Icon for MGS400	Ivory
M61K-262	Icon for MGS400	White
M61K-270	Icon for MGS400	Gray
M61K-317	Icon for MGS400	Red
M61K-318	Icon for MGS400	Blue
M61K-361	Icon for MGS400	Violet
M61F-003	Voice Icon Connector	Black
M61F-112	Voice Icon Connector	Orange
M61F-123	Voice Icon Connector	Yellow
M61F-226	Voice Icon Connector	Green
M61F-246	Voice Icon Connector	Ivory
M61F-262	Voice Icon Connector	White
M61F-270	Voice Icon Connector	Gray
M61F-317	Voice Icon Connector	Red
M61F-318	Voice Icon Connector	Blue
M61H-003	Computer Icon, MPSE, DATA	Black
M61H-112	Computer Icon, MPSE, DATA	Orange
M61H-123	Computer Icon, MPSE, DATA	Yellow
M61H-215	Computer Icon, MPSE, DATA	Misty Cream
M61H-226	Computer Icon, MPSE, DATA	Green
M61H-246	Computer Icon, MPSE, DATA	Ivory
M61H-262	Computer Icon, MPSE, DATA	White
M61H-270	Computer Icon, MPSE, DATA	Gray
M61H-317	Computer Icon, MPSE, DATA	Red
M61H-318	Computer Icon, MPSE, DATA	Blue
M61H-361	Computer Icon, MPSE, DATA	Violet

Multimedia Adapters/Couplers



Each individually packaged adapter/coupler comes with (4) adapter housings (black, gray, ivory and white), with the exception of S-Video to 110 and the RCA to 110 products.

Catalog Number	Description
S-Video to 110 Punchdown Module	
M81SVHS-110-003	Black S-Video/110 Connector
M81SVHS-110-246	Ivory S-Video/110 Connector
M81SVHS-110-262	White S-Video/110 Connector
M81SVHS-110-270	Gray S-Video/110 Connector
S-Video to S-Video	
M81-SVHS-SVHS-003	S-Video Pass Through, Black
M81-SVHS-SVHS-246	S-Video Pass Through, Ivory
M81-SVHS-SVHS-262	S-Video Pass Through, White
M81-SVHS-SVHS-270	S-Video Pass Through, Gray
RCA to 110 Punchdown Module	
M81RCA-110-003-W	Black Housing/White Connector
M81RCA-110-246-W	Ivory Housing/White Connector
M81RCA-110-262-W	White Housing/White Connector
M81RCA-110-270-W	Gray Housing/White Connector
M81RCA-110-003-Y	Black Housing/Yellow Connector
M81RCA-110-246-Y	Ivory Housing/Yellow Connector
M81RCA-110-262-Y	White Housing/Yellow Connector
M81RCA-110-270-Y	Gray Housing/Yellow Connector
M81RCA-110-003-R	Black Housing/Red Connector
M81RCA-110-246-R	Ivory Housing/Red Connector
M81RCA-110-262-R	White Housing/Red Connector
M81RCA-110-270-R	Gray Housing/Red Connector
M81RCA-110-003-B	Black Housing/Black Connector
M81RCA-110-246-B	Ivory Housing/Black Connector
M81RCA-110-262-B	White Housing/Black Connector
M81RCA-110-270-B	Gray Housing/Black Connector
RCA to RCA Module (pass-through)	
M81RCA-PT-W	White Coupler
M81RCA-PT-Y	Yellow Coupler
M81RCA-PT-R	Red Coupler
M81RCA-PT-B	Black Coupler
BNC to BNC Module (pass-through)	
M81BNC-B COUPLER	BNC to BNC (50 ohm)
M81BNC	BNC Coax Coupler (75 ohm)
F Coax to F Coax Module (pass-through)	
M81C	F-Coax Pass Through
Audio Jack	
M81-S35MM-S35MM	3.5 mm Audio Jack (Ivory, White, Black, and Gray Mounting Modules Included)



M81 Blank Dust Covers



M81SVHS-110-003



M81-SVHS-SVHS-270



M81RCA-110-270-R



M81RCA-PT-R



M81BNC-B



M81C-COUPLER



M81-S35MM-S35MM

Multimedia Adapters/Couplers

The M30FP series of adapters are for use with the FP series faceplates or any 200 series surface mount box.

Easy snap-in mounting and no assembly or tools required.

Catalog Number	Description	Color
VGA to VGA (15 pin pass-through)		
M30FP-VGA-PT-003	Black VGA Coupler	Black
M30FP-VGA-PT-246	Ivory VGA Coupler	Ivory
M30FP-VGA-PT-262	White VGA Coupler	White
M30FP-VGA-PT-270	Gray VGA Coupler	Gray
S-Video to 110		
M30FP-SVHS-110-003	Black S-Video to 110	Black
M30FP-SVHS-110-246	Ivory S-Video to 110	Ivory
M30FP-SVHS-110-262	White S-Video to 110	White
M30FP-SVHS-110-270	Gray S-Video to 110	Gray
RCA to 110		
M30FP-3RCA-110-003	Black 3 Port RCA to 110	Black
M30FP-3RCA-110-246	Ivory 3 Port RCA to 110	Ivory
M30FP-3RCA-110-262	White 3 Port RCA to 110	White
M30FP-3RCA-110-270	Gray 3 Port RCA to 110	Gray



M30FP-SVHS-110-246



M30FP-3RCA-110-270



M30FP-VGA-PT-003

DVI adapters can support one DVI connector and can be snapped on to all CommScope flexible faceplates (single or double gang), Tamper Resistant Faceplates, and the M208SMB Surface Mount Box.

The DVI is a dual link female to female connector with three rows of eight pins and four contacts around the blade.

Catalog Number	Description	Color
DVI to DVI		
M30FP DVI to DVI Adapter-003	Black 3 Port RCA to 110	Black
M30FP DVI to DVI Adapter-246	Ivory 3 Port RCA to 110	Ivory
M30FP DVI to DVI Adapter-262	White 3 Port RCA to 110	White
M30FP DVI to DVI Adapter-270	Gray 3 Port RCA to 110	Gray



M30FP DVI to DVI Adapter

C O N D U I T

ConQuest® Conduit

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ConQuest® Conduit Products



ConQuest® - Providing Damage Prevention & Access to Underground Facilities

Interest in underground damage prevention is surging. Federal legislation and an array of state laws have heightened concern on protecting vital underground delivery systems. Companies like yours spend billions to ensure continuity of service. These efforts are even more critical as competition heats up because reliability of service largely decides winners and losers in any industry.



Toneable Conduit™ – Protection & Location in One Tough Package!

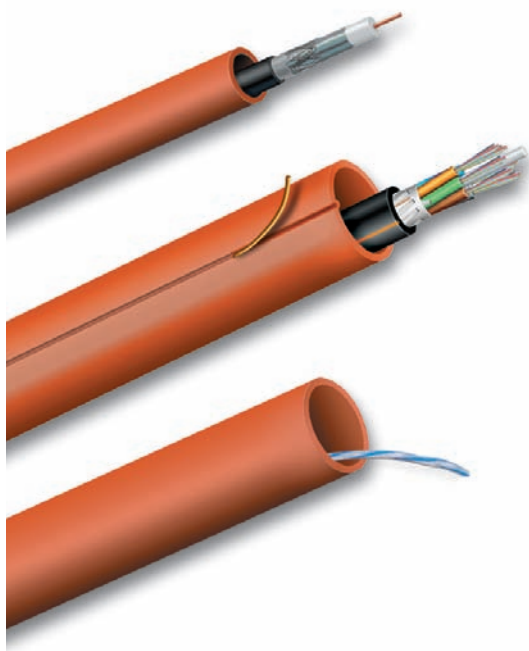
CommScope recognizes the challenge of confidently locating underground facilities. Toneable Conduit, the newest member of the ConQuest product family, is a CommScope technological achievement and winner of Communications Technology® Magazine 2002 Readers' Choice Award for Best New Transmission & Distribution Line Product. Patent-pending Toneable Conduit features an embedded tone wire that expedites routine maintenance or emergency restoration services and saves installation labor dollars.

Eliminate Pulling Cable After Conduit Has Been Placed – Specify Cable-In-Conduit

Utility companies and contractors are always digging on public easements. To best protect buried cable from service interruptions, request it pre-installed in a CommScope ConQuest product. These products provide a tough high-density polyethylene conduit factory pre-installed with any CommScope cable. Cable in conduit is becoming standard procedure for broadband operators with an eye on scalability. Today, these operators are building plants which protect today's investment and make future access to cable easy.

Install Empty ConQuest Conduit for Future Cable Placements

Sometimes conduit needs to be installed ahead of cable; such as for developing neighborhoods and for some long fiber optic cable placements. ConQuest offers an entire package of products that provide a variety of sizes, wall thicknesses, colors and pre-installed pull lines.



ConQuest® Conduit Products

Uniprise

ConQuest Drop in Conduit Facilitates Future Access to Infrastructure

The buried service wire, the final leg of the outside plant, is often the most vulnerable. Home owners like to dig, landscape, repair sprinklers, etc. That's why we offer ConQuest, our own brand of conduit products, factory preinstalled with the cable of your choice.

Request a FREE Broadband Applications & Construction Library

CommScope's Broadband Applications & Construction Library includes a 4-piece set of valuable reference manuals plus a DVD containing essential training videos on topics such as connectorization, expansion loop formation and fiber optic splicing. These tools teach you how to protect the integrity of your broadband plant while lowering operating/installation costs. From construction and installation practices, to performance and testing of cable – CommScope Construction Manuals are simply a "must-have" for anyone upgrading or maintaining broadband networks. Download a PDF version at our website: <http://www.commscope.com> (in the literature center) or request a set by phone at 1-800-982-1708.



CommScope's Digital Broadband Resource Center™

This repository of experience, knowledge, services & tools is provided to CommScope customers to assist installers, technicians, engineers, designers or managers of broadband service providers. Tools in various media and formats include: SpanMaster® software for cable sag & tension calculations; center conductor sizing guides; attenuation slide rules; & call center spec assistance & review. Call us at 1-866-333-dBRC (3272) or e-mail dbrc@commscope.com for answers to product questions or issues related to any CommScope broadband product.

Optimize Construction Efficiencies With ConQuest® PullMaster®

This software package helps system engineering and construction groups model and optimize conduit cable pulls before construction begins. This software provides a user-friendly technique for predicting expected tensions and fill ratios for a specific cable pull. The construction process can then be optimized and "best pull" locations identified, thus helping to reduce frustration and cost for crews in the field.



ConQuest®

ConQuest® Conduit



Features and Benefits

Feature High density polyethylene material

Benefits Superior resistance to cracking or shattering, providing long term stability (even at low temperatures)
Provides heavy protection in rocky soil conditions; Excellent chemical resistance
Lower coefficient of friction and moisture migration rate than traditional PVC stick pipe

Feature UV protection

Benefit Superior protection from cracking during storage or when used as a ground riser

Feature Continuous length conduit

Benefits Installs faster than PVC stick pipe; easy to plow; no couplings or glue required

Feature Conduit - internal lubricant

Benefit Provides excellent cable removal and replacement capabilities

Feature Pre-installed CommScope cable - the cable of choice

Benefits No field installation of cable into conduit required; cable is better protected from improper field handling; saves installation time and costs

Feature CommScope has received RUS acceptance for ConQuest conduit products

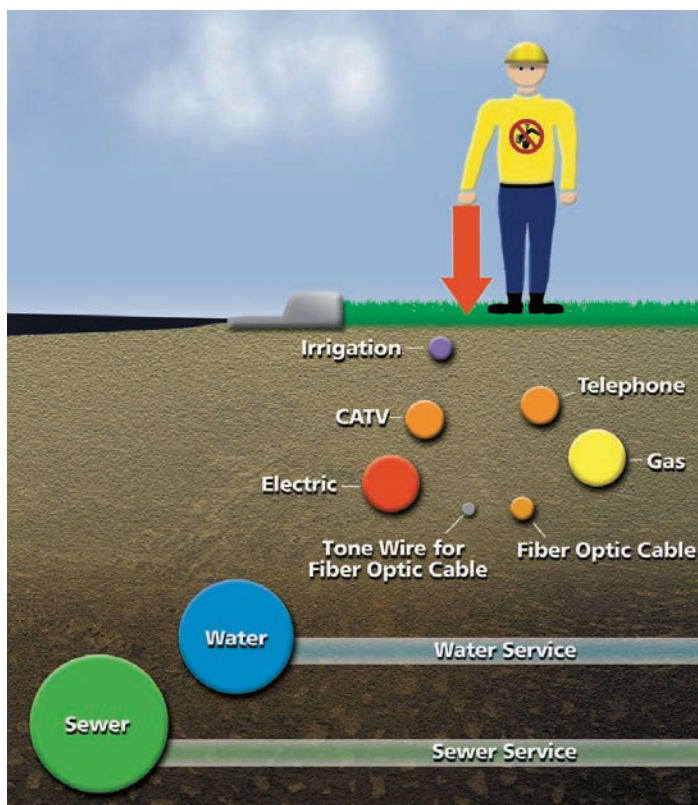
Conduit and Tracer Colors

CommScope manufactures conduit and tracers in a variety of colors to meet your specific requirements. However, please note that the most common colors are black, orange or terra cotta. Orange/terra cotta conduit is recommended for telecommunication conduit in buried applications. Black is recommended for applications where the conduit is exposed to direct sunlight. For other colors see the chart at right.

Note: Colors other than black do not tolerate direct sunlight for extended periods of time and are not recommended for aerial or above ground installations.

For more information on custom colors and tracers, please contact our Broadband Customer Service Center at 800-982-1708.

Typical Colors Used In Underground Applications



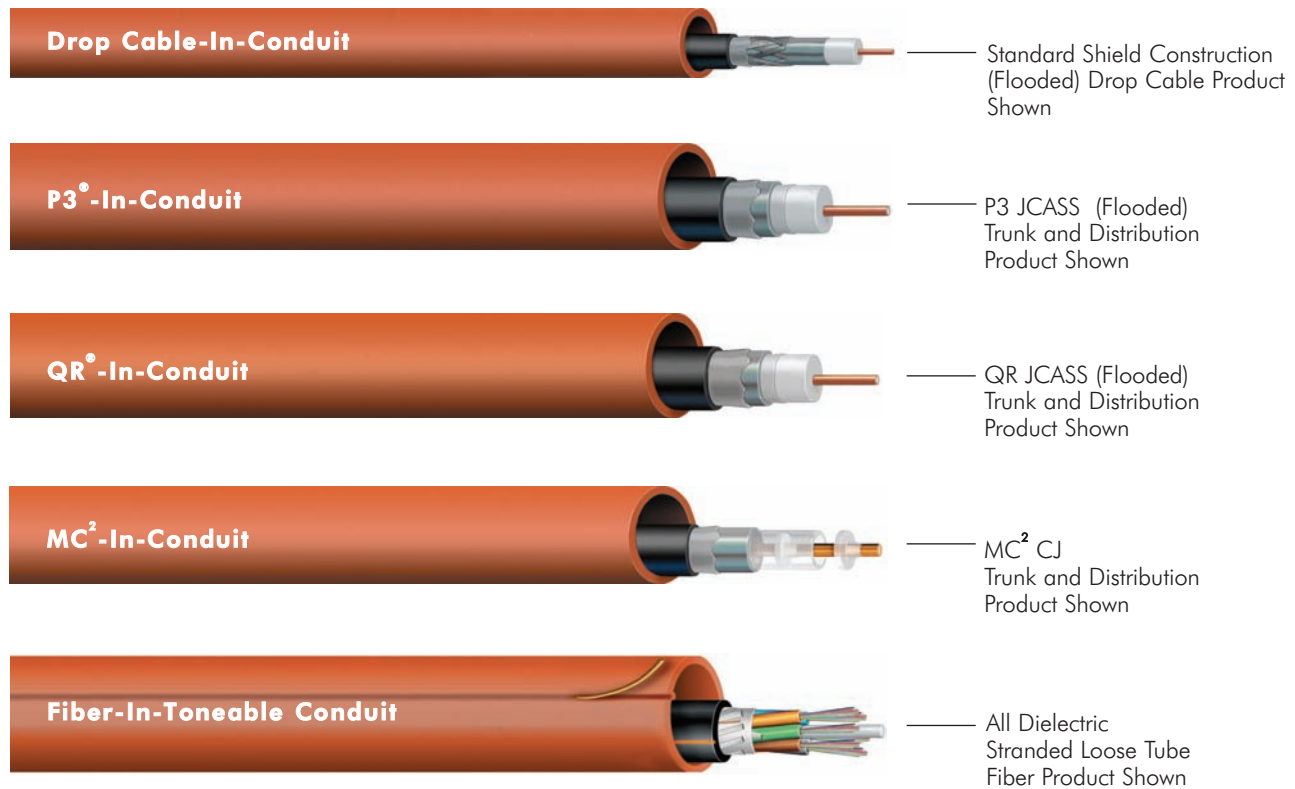
ConQuest® Conduit



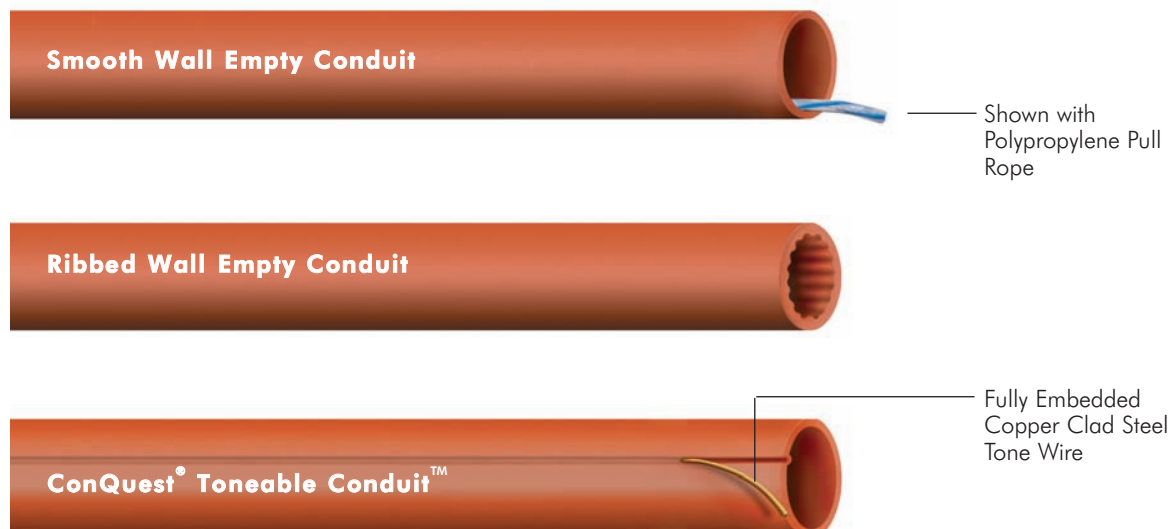
Available Configurations

CommScope manufactures conduit in a variety of sizes and configurations (empty or with pre-installed cable or pull lines). Below is just a small sampling of the configurations available. For more information, please contact your CommScope sales representative.

ConQuest® Cable-In-Conduit (CIC) Products



ConQuest® Empty Conduit (CEC) Products



Uniprise

Copper

Fiber

Coax

Multi-Conductor

Conduit

Packaging

Glossary/Index

ConQuest® Conduit



High Quality Product and Material Specifications

The material meets or exceeds the standards in ASTM D 3350-05 for Type III, Class PE334480E (colors with UV stabilizers) or Class C (black), high density polyethylene.

Material Specifications

Property	Test Method (ASTM)	Value
Density (g/cm ³)	D792A or D1505	0.941 - 0.955
Melt Index (g/10 min)	D1238	0.39 max.
Flexural Modulus (psi)	D790	80,000 min.
Tensile Strength @ yield (psi)	D638	3,000 min.
ESCR, Condition B	D1693	F 10 > 96 hrs.
Hydrostatic Design Basis (psi)	D2837	NPR*

*NPR - Not Pressure Rated

Ultraviolet Protection

Non-Black conduit shall contain sufficient protection against UV radiation for a period not less than one year. Black conduit contains sufficient protection against UV radiation in long term above ground applications.

Lubrication

There will be no adhesion of the cable jacket to the conduit wall. In addition, a permanent silicone based lubricant is applied to the cable jacket to aid in cable removal.

Cosmetics

Each reel or length shall be virtually free from voids, welds, or surface defects (inside or outside).

Printing

The standard print height is 1/4" ($\pm 1/16$ ") and unless otherwise specified shall conform to the following CommScope example **"(Current Year) COMMScope (Size) (SDR or SCH Size) CONQUEST (Footage) FEET"**. The print will be clearly legible and sequentially marked every two feet $\pm 1\%$ unless otherwise specified.

Ovality

Ovality, when calculated by the following formula: Maximum OD - Minimum OD divided by Average OD multiplied by 100 will be no more than 7% for conduit sizes up to 2" and no more than 10% for 3" conduit.

ConQuest® Conduit



Dimensions and Specifications

SDR 11

Nominal Size	Nominal Outside Diameter (inches)	Minimum Wall Thickness (inches)	Nominal Inner Diameter (inches)	Min. Bend Radius Unsupported (inches)	Max. Pulling Tension (lbs.)	Weight* (lb/kft)
13mm	0.625	0.055	0.500	8	210	46
1/2"	0.840	0.076	0.668	10	390	85
3/4"	1.050	0.095	0.840	12	605	130
1"	1.315	0.120	1.055	14	950	204
1 1/4"	1.660	0.151	1.338	18	1,520	320
1 1/2"	1.900	0.173	1.533	20	1,760	416
2"	2.375	0.216	1.917	26	3,105	640
3"	3.500	0.318	2.826	48	6,740	1,386
4"	4.500	0.409	3.633	60	11,145	2,295

SDR 13.5

Nominal Size	Nominal Outside Diameter (inches)	Minimum Wall Thickness (inches)	Nominal Inner Diameter (inches)	Min. Bend Radius Unsupported (inches)	Max. Pulling Tension (lbs.)	Weight* (lb/kft)
1/2"	0.840	0.062	0.696	10	320	71
3/4"	1.050	0.078	0.874	12	505	111
1"	1.315	0.097	1.101	14	790	169
1 1/4"	1.660	0.123	1.394	18	1,260	265
1 1/2"	1.900	0.141	1.598	20	1,455	344
2"	2.375	0.176	2.002	26	2,580	532
3"	3.500	0.259	2.951	48	5,590	1,154
4"	4.500	0.333	3.794	60	9,250	1,905

SCH 40

Nominal Size	Nominal Outside Diameter (inches)	Minimum Wall Thickness (inches)	Nominal Inner Diameter (inches)	Min. Bend Radius Unsupported (inches)	Max. Pulling Tension (lbs.)	Weight* (lb/kft)
3/4"	1.050	0.113	0.804	12	705	149
1"	1.315	0.133	1.029	14	1050	219
1 1/4"	1.660	0.140	1.360	18	1,420	295
1 1/2"	1.900	0.145	1.590	20	1,700	353
2"	2.375	0.154	2.047	26	2,300	472

SCH 80

Nominal Size	Nominal Outside Diameter (inches)	Minimum Wall Thickness (inches)	Nominal Inner Diameter (inches)	Min. Bend Radius Unsupported (inches)	Max. Pulling Tension (lbs.)	Weight* (lb/kft)
3/4"	1.050	0.154	0.722	12	920	189
1"	1.315	0.179	0.936	14	1,360	276
1 1/4"	1.660	0.191	1.255	18	1,875	383
1 1/2"	1.900	0.200	1.476	20	2,270	465
2"	2.375	0.218	1.913	26	3,140	645
3"	3.500	0.300	2.864	48	6,395	975
4"	4.500	0.337	3.786	60	9,345	1,950

NOTES

Standard Dimension Ratio (SDR) is the ratio between the wall thickness and the outside diameter of a specific conduit.
Schedule 40 & Schedule 80 dimensions are a specific wall thickness to each conduit diameter.
Other wall thicknesses are available upon request.

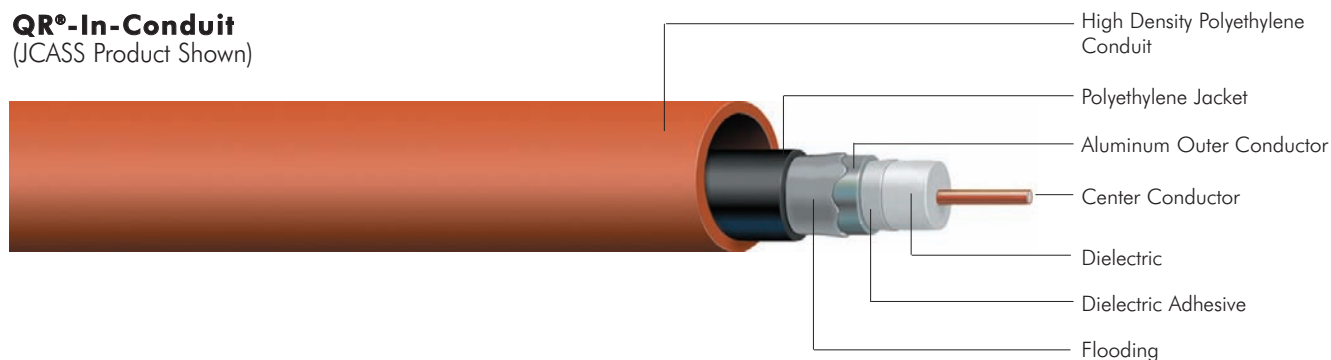
Specifications are subject to change without notice.

*Weight does not include the reel.

ConQuest® Conduit

Pre-Installed with QR® Trunk & Distribution Cable

QR®-In-Conduit (JCASS Product Shown)



QR®-In-Conduit

CommScope's patented QR® coaxial cable was developed to meet the increasing demands of tomorrow's broadband networks. QR has the highest reliability and flexibility of any coaxial cable, low RF attenuation and an unprecedented 10 year warranty.

QR coaxial cable offers lower attenuation than larger traditional products, with unmatched flexibility, reliability and cost effectiveness. CommScope offers four standard sizes (320, 540, 715 and 860) of QR Cable-In-Conduit, each optimized for a specific use. For more information or specifications on QR products, please visit our website at www.commscope.com.

			QR 320 JCASS			QR 540 JCASS		
Size	Wall Thickness	Wall Rating	Nominal Length (ft)	Reel Size (FDT) (in)	Weight* lbs/kft	Nominal Length (ft)	Reel Size (FDT) (in)	Weight* lbs/kft
3/4"	SDR 13.5	Medium	1,000	42 x 24 x 24	156	NA	NA	NA
	SDR 11	Heavy	1,000	42 x 24 x 24	177	NA	NA	NA
	SCH 40	Extra-Heavy	1,000	42 x 24 x 24	196	NA	NA	NA
1"	SDR 13.5	Medium	NA	NA	NA	3,700	63 x 28 x 43	261
	SDR 11	Heavy	NA	NA	NA	3,700	63 x 28 x 43	296
	SCH 40	Extra-Heavy	NA	NA	NA	3,700	63 x 28 x 43	311
1 1/4"	SDR 13.5	Medium	NA	NA	NA	3,700	80 x 43 x 43	357
	SCH 40	Heavy	NA	NA	NA	3,700	80 x 43 x 43	387
	SDR 11	Extra-Heavy	NA	NA	NA	3,700	80 x 43 x 43	412
1 1/2"	SDR 13.5	Medium	NA	NA	NA	3,700	90 x 43 x 43	436
	SCH 40	Heavy	NA	NA	NA	3,700	90 x 43 x 43	445
	SDR 11	Extra-Heavy	NA	NA	NA	3,700	90 x 43 x 43	508
2"	SCH 40	Medium	NA	NA	NA	3,700	102 x 48 x 43	564
	SDR 13.5	Heavy	NA	NA	NA	3,700	102 x 43 x 43	624
	SDR 11	Extra-Heavy	NA	NA	NA	3,700	102 x 43 x 43	732

Other cables and wall sizes may be available upon request

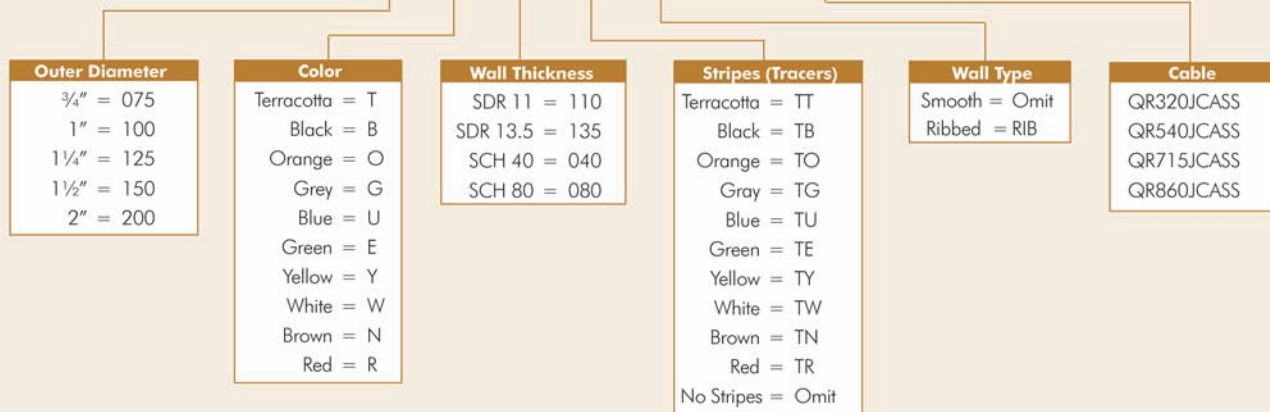
ConQuest® Conduit



Pre-Installed with QR® Trunk & Distribution Cable

Sample: 1½" Orange SCH 40 Ribbed with Black Stripe & QR 860 JCASS

150 O 040 TB RIB QR860JCASS



Please contact Customer Service if you need assistance in building part numbers.

QR 715 JCASS			QR 860 JCASS			Wall Thickness	Wall Rating	Size
Nominal Length (ft)	Reel Size (FDT) (in)	Weight* lbs/kft	Nominal Length (ft)	Reel Size (FDT) (in)	Weight* lbs/kft			
NA	NA	NA	NA	NA	NA	SDR 13.5	Medium	3/4"
NA	NA	NA	NA	NA	NA	SDR 11	Heavy	
NA	NA	NA	NA	NA	NA	SCH 40	Extra-Heavy	
NA	NA	NA	NA	NA	NA	SDR 13.5	Medium	1"
NA	NA	NA	NA	NA	NA	SDR 11	Heavy	
NA	NA	NA	NA	NA	NA	SCH 40	Extra-Heavy	
3,000	68 x 28 x 43	409	NA	NA	NA	SDR 13.5	Medium	1 1/4"
3,000	68 x 28 x 43	439	NA	NA	NA	SCH 40	Heavy	
3,000	68 x 28 x 43	464	NA	NA	NA	SDR 11	Extra-Heavy	
3,000	90 x 43 x 43	488	2,700	80 x 43 x 43	558	SDR 13.5	Medium	1 1/2"
3,000	90 x 43 x 43	497	2,700	80 x 43 x 43	567	SCH 40	Heavy	
3,000	90 x 43 x 43	560	2,700	80 x 43 x 43	630	SDR 11	Extra-Heavy	
3,000	102 x 48 x 43	616	2,700	102 x 48 x 43	686	SCH 40	Medium	2"
3,000	102 x 43 x 43	676	2,700	102 x 43 x 43	746	SDR 13.5	Heavy	
3,000	102 x 43 x 43	784	2,700	102 x 43 x 43	854	SDR 11	Extra-Heavy	

Specifications are subject to change without notice.

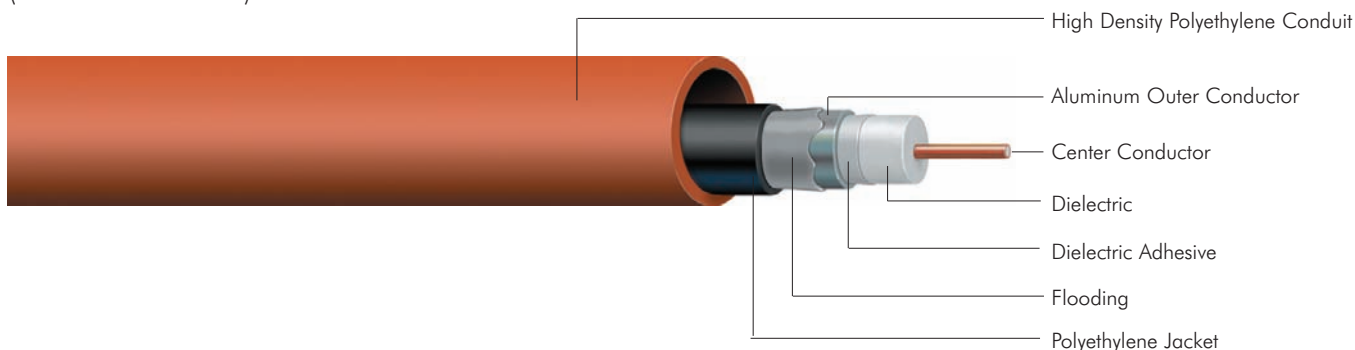
*Weight does not include the reel.

ConQuest® Conduit

Pre-Installed with P3® Trunk & Distribution Cable

P3®-In-Conduit

(JCASS Product Shown)



P3®-In-Conduit

CommScope's P3® product line is the industry standard by which all coaxial trunk and distribution cables are measured. P3 has been proven robust and reliable by years of successful installations.

CommScope P3 offers low attenuation and inherent strength making it an industry standard. CommScope offers several different sizes of P3 Cable-In-Conduit (500, 565, 625, 700, 750 and 875), each optimized for a specific use. For more information or specifications on our P3 cables, please visit our website at www.commscope.com.

			P3 500 JCASS			P3 565 JCASS			P3 625 JCASS		
Size	Wall Thickness	Wall Rating	Nominal Length (ft)	Reel Size (FDT) (in)	Weight* lbs/kft	Nominal Length (ft)	Reel Size (FDT) (in)	Weight* lb/kft	Nominal Length (ft)	Reel Size (FDT) (in)	Weight* lb/kft
1"	SDR 13.5	Medium	2,400	54 x 28 x 43	266	2,400	54 x 28 x 43	285	NA	NA	NA
	SDR 11	Heavy	2,400	54 x 28 x 43	301	2,400	54 x 28 x 43	320	NA	NA	NA
	SCH 40	Extra-Heavy	2,400	54 x 28 x 43	316	2,400	54 x 28 x 43	335	NA	NA	NA
1 1/4"	SDR 13.5	Medium	2,400	63 x 28 x 43	362	2,400	63 x 28 x 43	381	2,400	63 x 28 x 43	410
	SCH 40	Heavy	2,400	63 x 28 x 43	392	2,400	63 x 28 x 43	411	2,400	63 x 28 x 43	440
	SDR 11	Extra-Heavy	2,400	63 x 28 x 43	417	2,400	63 x 28 x 43	436	2,400	63 x 28 x 43	465
1 1/2"	SDR 13.5	Medium	2,400	80 x 43 x 43	441	2,400	80 x 43 x 43	460	2,400	80 x 43 x 43	489
	SCH 40	Heavy	2,400	80 x 43 x 43	450	2,400	80 x 43 x 43	469	2,400	80 x 43 x 43	498
	SDR 11	Extra-Heavy	2,400	80 x 43 x 43	513	2,400	80 x 43 x 43	532	2,400	80 x 43 x 43	561
2"	SCH 40	Medium	2,400	90 x 48 x 43	569	2,400	90 x 48 x 43	588	2,400	90 x 48 x 43	617
	SDR 13.5	Heavy	2,400	90 x 43 x 43	629	2,400	90 x 43 x 43	648	2,400	90 x 43 x 43	677
	SDR 11	Extra-Heavy	2,400	90 x 43 x 43	737	2,400	90 x 43 x 43	756	2,400	90 x 43 x 43	785

Other cables and wall sizes may be available upon request

ConQuest® Conduit



Pre-Installed with Trunk & Distribution Cable

Sample: 1 1/4" Blue SDR 13.5 Ribbed with Yellow Stripe & P3 625 JCASS

125 U 135 TY RIB P3625JCASS

Outer Diameter	Color	Wall Thickness	Stripes (Tracers)	Wall	Cable
1" = 100 1 1/4" = 125 1 1/2" = 150 2" = 200	Terracotta = T Black = B Orange = O Grey = G Blue = U Green = E Yellow = Y White = W Brown = N Red = R	SDR 11 = 110 SDR 13.5 = 135 SCH 40 = 040 SCH 80 = 080	Terracotta = TT Black = TB Orange = TO Gray = TG Blue = TU Green = TE Yellow = TY White = TW Brown = TN Red = TR No Stripes = Omit	Smooth = Omit Ribbed = RIB	P3500JCASS P3565JCASS P3625JCASS P3700JCASS P3750JCASS P3875JCASS

Please contact Customer Service if you need assistance in building part numbers.

P3 700 JCASS			P3 750 JCASS			P3 875 JCASS			Size
Nominal Length (ft)	Reel Size (FDT) (in)	Weight* lb/kft	Nominal Length (ft)	Reel Size (FDT) (in)	Weight* lb/kft	Nominal Length (ft)	Reel Size (FDT) (in)	Weight* lbs/kft	
NA	NA	NA	NA	NA	NA	NA	NA	NA	1"
NA	NA	NA	NA	NA	NA	NA	NA	NA	
NA	NA	NA	NA	NA	NA	NA	NA	NA	
2,500	63 x 28 x 43	430	2,500	68 x 28 x 43	467	NA	NA	NA	1 1/4"
2,500	63 x 28 x 43	460	2,500	68 x 28 x 43	497	NA	NA	NA	
2,500	63 x 28 x 43	485	2,500	68 x 28 x 43	522	NA	NA	NA	
2,500	80 x 43 x 43	509	2,500	80 x 43 x 43	546	2,500	80 x 43 x 43	606	1 1/2"
2,500	80 x 43 x 43	518	2,500	80 x 43 x 43	555	2,500	80 x 43 x 43	615	
2,500	80 x 43 x 43	581	2,500	80 x 43 x 43	618	2,500	80 x 43 x 43	678	
2,500	90 x 48 x 43	637	2,500	90 x 48 x 43	674	2,500	90 x 48 x 43	734	2"
2,500	90 x 43 x 43	697	2,500	90 x 43 x 43	734	2,500	90 x 43 x 43	794	
2,500	90 x 43 x 43	805	2,500	90 x 43 x 43	842	2,500	90 x 43 x 43	902	

Specifications are subject to change without notice.

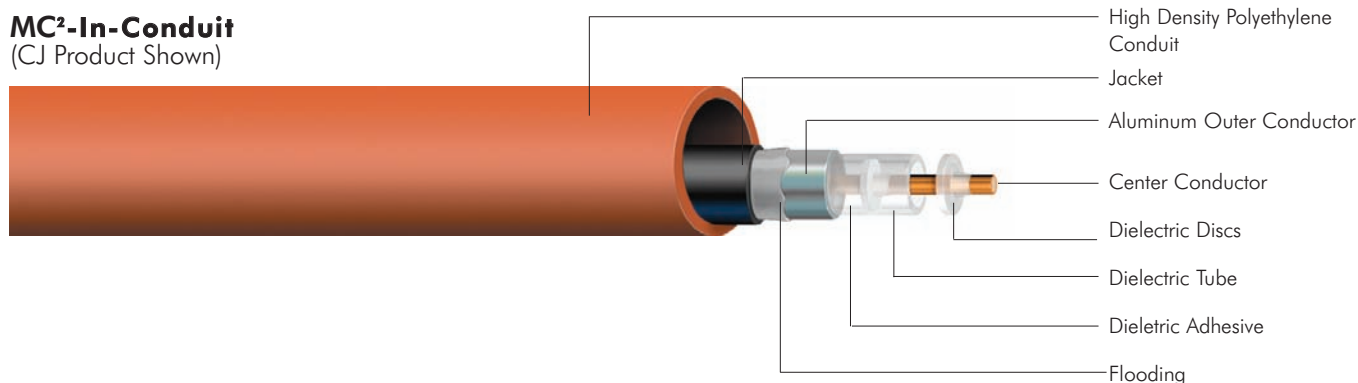
*Weight does not include the reel.

ConQuest® Conduit



Pre-Installed with MC² Trunk and Distribution Cable

MC²-In-Conduit (CJ Product Shown)



CommScope's MC² product line supports system operators that have an established network design based on the MC² platform.

Standard MC² Construction

Disc and air dielectric with an aluminum strip formed and continuously RF welded.

Size	Wall Thickness	Wall Rating	MC ² 500 CJ			MC ² 650 CJ			MC ² 750 CJ		
			Nominal Length (ft)	Reel Size (FDT) (in)	Weight* lbs/kft	Nominal Length (ft)	Reel Size (FDT) (in)	Weight* lbs/kft	Nominal Length (ft)	Reel Size (FDT) (in)	Weight* lbs/kft
1"	SDR 13.5	Medium	4,600	68 x 28 x 43	277	NA	NA	NA	NA	NA	NA
	SDR 11	Heavy	4,600	68 x 28 x 43	312	NA	NA	NA	NA	NA	NA
	SCH 40	Extra-Heavy	4,600	68 x 28 x 43	327	NA	NA	NA	NA	NA	NA
1 1/4"	SDR 13.5	Medium	4,600	80 x 28 x 43	372	4,000	80 x 28 x 43	415	2,700	68 x 28 x 43	471
	SCH 40	Heavy	4,600	80 x 28 x 43	403	4,000	80 x 28 x 43	445	2,700	68 x 28 x 43	502
	SDR 11	Extra-Heavy	4,600	80 x 28 x 43	428	4,000	80 x 28 x 43	470	2,700	68 x 28 x 43	527
1 1/2"	SDR 13.5	Medium	4,600	102 x 43 x 43	452	4,000	90 x 43 x 43	495	2,700	80 x 43 x 43	551
	SCH 40	Heavy	4,600	102 x 43 x 43	462	4,000	90 x 43 x 43	504	2,700	80 x 43 x 43	560
	SDR 11	Extra-Heavy	4,600	102 x 43 x 43	525	4,000	90 x 43 x 43	567	2,700	80 x 43 x 43	623
2"	SCH 40	Medium	NA	NA	NA	NA	NA	NA	2,700	102 x 48 x 43	679
	SDR 13.5	Heavy	NA	NA	NA	NA	NA	NA	2,700	102 x 48 x 43	739
	SDR 11	Extra-Heavy	NA	NA	NA	NA	NA	NA	2,700	102 x 48 x 43	847

Other cables and wall sizes may be available upon request.

ConQuest® Conduit Catalog Numbering Key

Pre-Installed with MC²® Trunk & Distribution Cable

Sample: 1" Black SDR 13.5 Ribbed with Red Stripe & MC² 500 Flooded

100 B 13.5 TR RIB MO500CJ

Outer Diameter
1" = 100
1 1/4" = 125
1 1/2" = 150
2" = 200

Color
Terracotta = T
Black = B
Orange = O
Grey = G
Blue = U
Green = E
Yellow = Y
White = W
Brown = N
Red = R

Wall Thickness
SDR 11 = 110
SDR 13.5 = 135
SCH 40 = 040
SCH 80 = 080

Stripes (Tracers)
Terracotta = TT
Black = TB
Orange = TO
Gray = TG
Blue = TU
Green = TE
Yellow = TY
White = TW
Brown = TN
Red = TR
No Stripes = Omit

Wall Type
Smooth = Omit
Ribbed = RIB

Cable
MO500CJ
MO650CJ
MO750CJ

Please contact Customer Service if you need assistance in building part numbers.

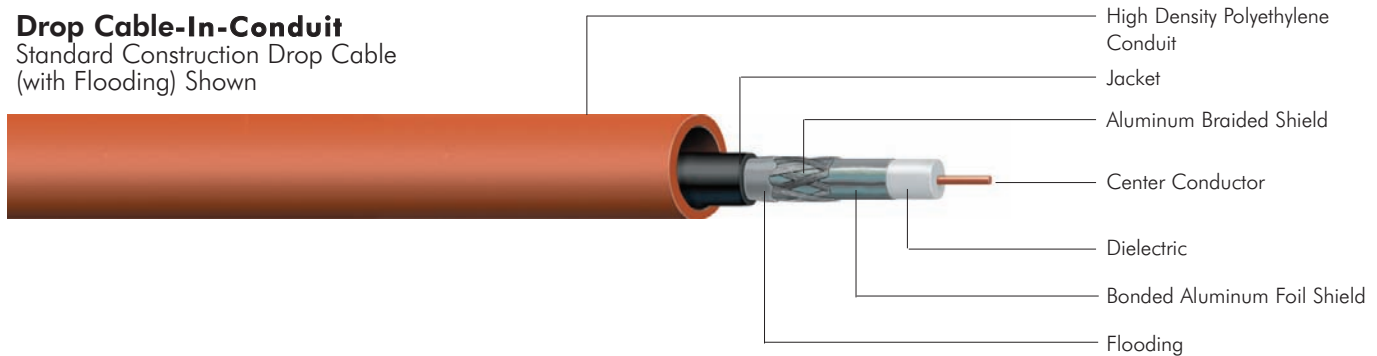
ConQuest® Conduit



Pre-Installed with CommScope Drop Cable

Drop Cable-In-Conduit

Standard Construction Drop Cable
(with Flooding) Shown



CommScope Drop-In-Conduit is a complete family of products serving a number of applications. All drop cable products are available in a variety of sizes (59, 6 and 11) and standard configurations. (standard, tri-shield and super-shield). For more information or specifications on drop cables, please visit our website at www.commscope.com.

Size	Wall Thickness	Wall Rating	Maximum Number of Cables			Standard Length (ft)	Reel Size (FDT) (in)
			F59 Series	F6 Series	F11 Series		
13mm	SDR 11	Heavy	1	1	0	1,000	24 x 12 x 18
1/2"	SDR 13.5	Medium	1	1	0	1,000	35 x 16½ x 18
	SDR 11	Heavy	1	1	0	1,000	35 x 16½ x 18
3/4"	SDR 13.5	Medium	2	2	1	1,000	42 x 24 x 24
	SDR 11	Heavy	2	2	1	1,000	42 x 24 x 24
	SCH 40	Extra Heavy	2	2	1	1,000	42 x 24 x 24
1"	SDR 13.5	Medium	3	3	2	1,000	50 x 24 x 24
	SDR 11	Heavy	3	3	2	1,000	50 x 24 x 24
	SCH 40	Extra Heavy	3	3	2	1,000	50 x 24 x 24

Other cables and wall sizes may be available upon request.

Specifications are subject to change without notice.

ConQuest® Conduit Catalog Numbering Key

Pre-Installed with CommScope Drop Cable

Sample: ¾" White SDR 11 Ribbed with Brown Stripe & F6 Quad Shield

075 W 110 TN RIB F6SSEF

Outer Diameter	Color	Wall Thickness	Stripes (Tracers)	Wall	Cable
13mm = 13M ½" = 050 ¾" = 075 1" = 100	Terracotta = T Black = B Orange = O Grey = G Blue = U Green = E Yellow = Y White = W Brown = N Red = R	SDR 11 = 110 SDR 13.5 = 135 SCH 40 = 040 SCH 80 = 080	Terracotta = TT Black = TB Orange = TO Gray = TG Blue = TU Green = TE Yellow = TY White = TW Brown = TN Red = TR No Stripes = Omit	Smooth = Omit *Ribbed = RIB	F660BEF F690BEF F6TSEF F677TSEF F6SSEF F1160BEF F1190BEF F11TSEF F1177TSEF F11SSEF

Please contact Customer Service if you need assistance in building part numbers.

*NOTE: Ribbed not available in 13mm and ½" conduit.

ConQuest® Conduit

Pre-Installed with CommScope Dry Loose Tube Fiber Optic

Fiber-In-Conduit

All of CommScope's fiber cables can be pre-installed in conduit, including the gel free, Dry Loose Tube cable. Available in five different diameters - 3/4", 1", 1-1/4", 1-1/2" and 2" and three different wall thicknesses - SDR 11, SDR 13.5 and SCH 40. For more information or specifications on Fiber Optic cables, please visit our website at www.commscope.com.

Cable Type/ Fiber Count	Fiber Part Number & Conduit Description	Cable OD & Weight (kft)	Available Conduit OD	Available Wall Thicknesses	Weight (lb/kft)*		
					SDR 11	SDR 13.5	SCH 40
Dry (gel free) Loose Tube Dielectric 2 - 60 Fibers	D-XXX-LN-XY-F12NS Specify Conduit OD, Wall Thickness and Color	0.41" 47 lbs.	3/4"	SDR 11 or 13.5	177	158	
			1"	SDR 11 or 13.5	251	216	
			1 1/4"	SDR 11 or 13.5	357	266	
			1 1/2"	SDR 11 or 13.5	463	391	
			2"	SDR 13.5 or SCH 40	579	519	
Dry (gel free) Loose Tube Dielectric 62 - 72 Fibers	D-XXX-LN-XY-F12NS Specify Conduit OD, Wall Thickness and Color	0.43" 52 lbs.	3/4"	SDR 11 or 13.5	182	163	
			1"	SDR 11 or 13.5	256	221	
			1 1/4"	SDR 11 or 13.5	372	317	
			1 1/2"	SDR 11 or 13.5	468	396	
			2"	SDR 13.5 or SCH 40	584	524	
Dry (gel free) Loose Tube Dielectric 74 - 96 Fibers	D-XXX-LN-XY-F12NS Specify Conduit OD, Wall Thickness and Color	0.49" 69 lbs.	3/4"	SDR 11 or 13.5	199	180	
			1"	SDR 11 or 13.5	273	238	
			1 1/4"	SDR 11 or 13.5	389	334	
			1 1/2"	SDR 11 or 13.5	485	413	
			2"	SDR 13.5 or SCH 40	601	541	
Dry (gel free) Loose Tube Dielectric 98 - 120 Fibers	D-XXX-LN-XY-F12NS Specify Conduit OD, Wall Thickness and Color	0.55" 87 lbs.	1"	SDR 11 or 13.5	291	256	
			1 1/4"	SDR 11 or 13.5	407	352	
			1 1/2"	SDR 11 or 13.5	503	431	
			2"	SDR 13.5 or SCH 40	619	559	
Dry (gel free) Loose Tube Dielectric 122 - 144 Fibers	D-XXX-LN-XY-F12NS Specify Conduit OD, Wall Thickness and Color	0.62" 104 lbs.	1"	SDR 11 or 13.5	308	273	
			1 1/4"	SDR 11 or 13.5	424	369	
			1 1/2"	SDR 11 or 13.5	520	448	
			2"	SDR 13.5 or SCH 40	636	576	
Dry (gel free) Loose Tube Dielectric 146 - 216 Fibers	D-XXX-LN-XY-F12NS Specify Conduit OD, Wall Thickness and Color	0.63" 93 lbs.	1"	SDR 11 or 13.5	297	262	
			1 1/4"	SDR 11 or 13.5	413	358	
			1 1/2"	SDR 11 or 13.5	509	437	
			2"	SDR 13.5 or SCH 40	625	565	
Dry (gel free) Loose Tube Dielectric 218 - 288 Fibers	D-XXX-LN-XY-F12NS Specify Conduit OD, Wall Thickness and Color	0.73" 127 lbs.	1 1/4"	SDR 11 or 13.5	447	392	
			1 1/2"	SDR 11 or 13.5	543	471	
			2"	SDR 13.5 or SCH 40	659	599	

Other cables and wall sizes may be available upon request.

*Weight does not include reel

Variables in the Catalog Number:

XXX = Total Fiber Count
XY = Fiber Grade

8W LightScope ZWP® Dispersion-Unshifted,
Matched-Clad Single-mode Fiber
8T LightScope NZD® Non-Zero Dispersion-
Shifted Single-mode Fiber

6F 62.5µm, FDDI Grade Multimode Fiber
5M LaserCore® 150, 50µm, Multimode Fiber
5L LaserCore® 300, 50µm, Multimode Fiber
5K LaserCore® 500, 50µm, Multimode Fiber

For Composites Only:

aaa is replaced with single-mode fiber count
AA is replaced with single-mode type

bbb is replaced by multimode fiber count
BB is replaced by multimode type

Buffer Tubes/Fiber Identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

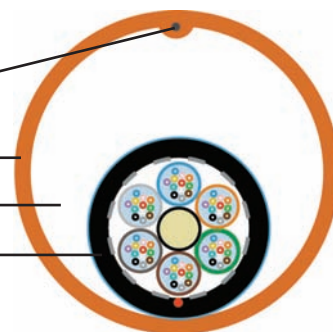
Dry Loose Tube Fiber-In-Conduit (72 Fiber Construction in Toneable Conduit Shown)

Copper Clad Steel Tone Wire

High-Grade Polyethylene Conduit

Silcon-Based Lubricant

Dry Loose Tube Cable



Specifications are subject to change without notice

*Weight does not include reel.

ConQuest® Conduit



Pre-Installed with CommScope Arid-Core® Fiber Optic Cable

Fiber-In-Conduit

All of CommScope's fiber cables can be pre-installed in conduit, including the Arid-Core Loose Tube cable. Available in five different diameters - 3/4", 1", 1-1/4", 1-1/2" and 2" and three different wall thicknesses - SDR 11, SDR 13.5 and SCH 40. For more information or specifications on Fiber Optic cables, please visit our website at www.commscope.com.

Cable Type/ Fiber Count	Fiber Part Number & Conduit Description	Cable OD & Weight (kft)	Available Conduit OD	Available Wall Thicknesses	Weight (lb/kft)*		
					SDR 11	SDR 13.5	SCH 40
Arid-Core Loose Tube Dielectric 2 - 60 Fibers	O-XXX-LN-XY-F12NS Specify Conduit OD, Wall Thickness and Color	0.46" 64 lbs.	3/4"	SDR 11 or 13.5	194	175	
			1"	SDR 11 or 13.5	268	233	
			1 1/4"	SDR 11 or 13.5	384	329	
			1 1/2"	SDR 11 or 13.5	480	408	
			2"	SDR 13.5 or SCH 40		596	536
Arid-Core Loose Tube Dielectric 62 - 72 Fibers	O-XXX-LN-XY-F12NS Specify Conduit OD, Wall Thickness and Color	0.49" 78 lbs.	3/4"	SDR 11 or 13.5	208	189	
			1"	SDR 11 or 13.5	282	247	
			1 1/4"	SDR 11 or 13.5	398	343	
			1 1/2"	SDR 11 or 13.5	494	422	
			2"	SDR 13.5 or SCH 40		610	550
Arid-Core Loose Tube Dielectric 74 - 96 Fibers	O-XXX-LN-XY-F12NS Specify Conduit OD, Wall Thickness and Color	0.57" 101 lbs.	1"	SDR 11 or 13.5	305	300	
			1 1/4"	SDR 11 or 13.5	421	366	
			1 1/2"	SDR 11 or 13.5	517	445	
			2"	SDR 13.5 or SCH 40		610	550
Arid-Core Loose Tube Dielectric 98 - 120 Fibers	O-XXX-LN-XY-F12NS Specify Conduit OD, Wall Thickness and Color	0.66" 125 lbs.	1 1/4"	SDR 11 or 13.5	445	418	
			1 1/2"	SDR 11 or 13.5	541	497	
			2"	SDR 13.5 or SCH 40		685	597
Arid-Core Loose Tube Dielectric 122 - 144 Fibers	O-XXX-LN-XY-F12NS Specify Conduit OD, Wall Thickness and Color	0.74" 153 lbs.	1 1/4"	SDR 11 or 13.5	473	418	
			1 1/2"	SDR 11 or 13.5	569	497	
			2"	SDR 13.5 or SCH 40		685	625
Arid-Core Loose Tube Dielectric 146 - 216 Fibers	O-XXX-LN-XY-F12NS Specify Conduit OD, Wall Thickness and Color	0.74" 150 lbs.	1 1/4"	SDR 11 or 13.5	470	415	
			1 1/2"	SDR 11 or 13.5	566	494	
			2"	SDR 13.5 or SCH 40		682	622
Arid-Core Loose Tube Dielectric 218 - 288 Fibers	O-XXX-LN-XY-F12NS Specify Conduit OD, Wall Thickness and Color	0.86" 197 lbs.	1 1/2"	SDR 11 or 13.5	613	541	
			2"	SDR 13.5 or SCH 40		729	669

Other cables and wall sizes may be available upon request.

*Weight does not include reel

Variables in the Catalog Number:

XXX = Total Fiber Count
XY = Fiber Grade

8W LightScope ZWP® Dispersion-Unshifted,
Matched-Clad Single-mode Fiber
8T LightScope NZD® Non-Zero Dispersion-
Shifted Single-mode Fiber

6F 62.5µm, FDDI Grade Multimode Fiber
5M LaserCore® 150, 50µm, Multimode Fiber
5L LaserCore® 300, 50µm, Multimode Fiber
5K LaserCore® 500, 50µm, Multimode Fiber

For Composites Only:

aaa is replaced with single-mode fiber count
AA is replaced with single-mode type

bbb is replaced by multimode fiber count
BB is replaced by multimode type

Buffer Tubes/Fiber Identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

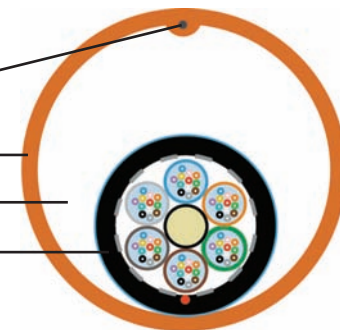
Arid-Core Loose Tube Fiber-In-Conduit (72 Fiber Construction in Toneable Conduit Shown)

Copper Clad Steel Tone Wire

High-Grade Polyethylene Conduit

Silcon-Based Lubricant

Arid-Core Loose Tube Cable



Specifications are subject to change without notice

*Weight does not include reel.

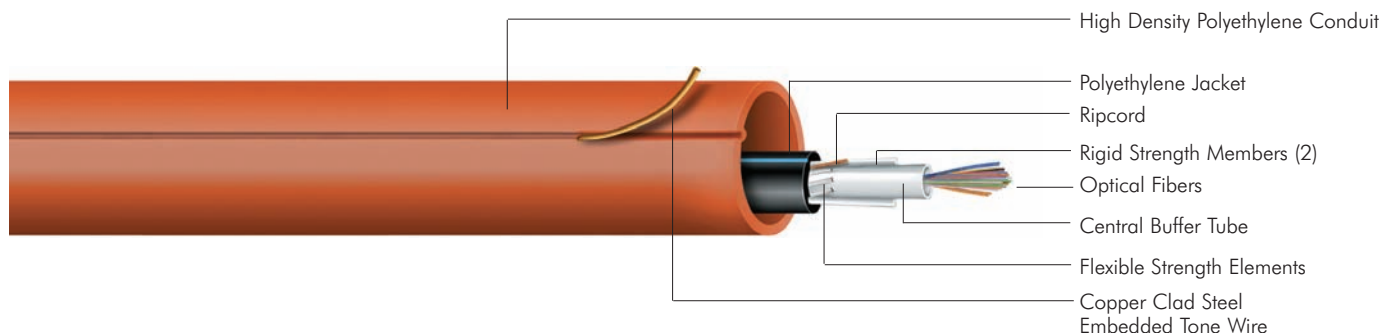
ConQuest® Conduit



Pre-Installed with CommScope Central Tube Fiber Optic Cable

Fiber Optic Cable

All Dielectric Central Tube Fiber Cable
Shown in ConQuest® Toneable Conduit™



Cable Type/ Fiber Count	Fiber Part Number & Conduit Description	Cable OD & Weight (kft)	Available Conduit OD	Available Wall Thicknesses	Weight (lb/kft)*		
					SDR 11	SDR 13.5	SCH 40
Central Tube Dielectric 2 - 24 Fibers	O-XXX-CN-XY-F12NS Specify Conduit OD, Wall Thickness and Color	0.40" 63 lbs.	1"	SDR 11 or 13.5	265	230	
			1 1/4"	SDR 11 or 13.5	381	326	
			1 1/2"	SDR 11 or 13.5	477	405	
			2"	SDR 13.5 or SCH 40		593	533
Central Tube Dielectric 26 - 48 Fibers	O-XXX-CN-XY-F12NS Specify Conduit OD, Wall Thickness and Color	0.47" 103 lbs.	1"	SDR 11 or 13.5	273	238	
			1 1/4"	SDR 11 or 13.5	389	334	
			1 1/2"	SDR 11 or 13.5	485	413	
			2"	SDR 13.5 or SCH 40		601	541
Central Tube Dielectric 50 - 96 Fibers	O-XXX-CN-XY-F12NS Specify Conduit OD, Wall Thickness and Color	0.55" 110 lbs.	1"	SDR 11 or 13.5	291	256	
			1 1/4"	SDR 11 or 13.5	407	352	
			1 1/2"	SDR 11 or 13.5	503	431	
			2"	SDR 13.5 or SCH 40		619	559

Other cables and wall sizes may be available upon request.

* Weight does not include reel.

Variables in the Catalog Number:

XXX = Total Fiber Count

XY = Fiber Grade

8W LightScope ZWP® Dispersion-Unshifted,
Matched-Clad Single-mode Fiber
8T LightScope NZD® Non-Zero Dispersion-
Shifted Single-mode Fiber

6F 62.5µm, FDDI Grade Multimode Fiber
5M LaserCore® 150, 50µm, Multimode Fiber
5L LaserCore® 300, 50µm, Multimode Fiber
5H 50µm, Multimode Fiber

For Composites Only: **aaa** is replaced with single-mode fiber count
AA is replaced with single-mode type

bbb is replaced by multimode fiber count
BB is replaced by multimode type

Buffer Tubes/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

Central Tube Fiber-In-Conduit

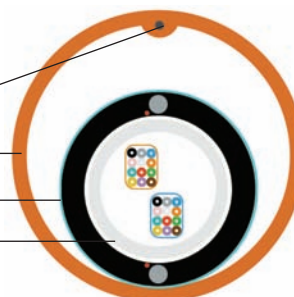
(24 Fiber Construction in
Toneable Conduit Shown)

Copper clad steel
tone wire

High-grade polyethylene conduit

Silicon-based lubricant

Central Tube Cable



Specifications are subject to change without notice.

ConQuest® Conduit



Pre-Installed with CommScope Fiber Drop Cable

Fiber-In-Conduit

All of CommScope's fiber cables can be pre-installed in conduit, including the Fiber Drop cables. Available in 1/2" or 3/4" and two different wall thicknesses - SDR 11 or SDR 13.5. For more information or specifications on Fiber Optic cables, please visit our website at www.commscope.com.

Cable Type/ Fiber Count	Catalog Number (Description)	Cable OD & Weight (kft)	Available Conduit OD	Available Wall Thicknesses	Weight (lb/kft)*	
					SDR 11	SDR 13.5
Fiber Drop Messengered 1 - 6 Fibers	M-XXX-MN-XY-FZZNS/BSS (Stranded Steel Construction) Specify Conduit OD, Wall Thickness and Color	0.16 x 0.31" 29 lbs.	1/2" 3/4"	SDR 11 or 13.5	114	100
					159	140
Fiber Drop Messengered 1 - 6 Fibers	M-XXX-MN-XY-FZZNS/CCS (Solid Steel Construction) Specify Conduit OD, Wall Thickness and Color	0.16 x 0.31" 27 lbs.	1/2" 3/4"	SDR 11 or 13.5	112	98
					157	138

*Note: The solid or stranded steel messengers can be used to pull the cable during installation, and for locating after burial.

All-Dielectric Flat Drop Cable-In-Conduit

Cable Type/ Fiber Count	Catalog Number (Description)	Cable OD & Weight (kft)	Available Conduit OD	Available Wall Thicknesses	Weight (lb/kft)*	
					SDR 11	SDR 13.5
Flat Drop Messengered 1 - 6 Fibers	O-XXX-DF-XY-FZZNS (Stranded Steel Construction) Specify Conduit OD, Wall Thickness and Color	0.18 x 0.32" 30 lbs.	1/2" 3/4"	SDR 11 or 13.5	115	101
					160	141

Other cables and wall sizes may be available upon request.

* Weight does not include reel.

Variables in the Catalog Number:

XXX = Total Fiber Count

XY = Fiber Grade **8W** LightScope ZWP® Dispersion-Unshifted,

6F 62.5µm, FDDI Grade Multimode Fiber

5M LaserCore® 150, 50µm, Multimode Fiber

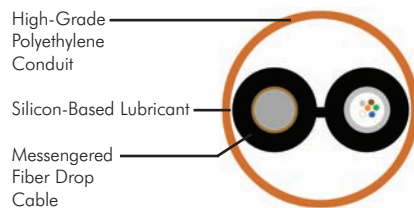
5L LaserCore® 300, 50µm, Multimode Fiber

5K LaserCore® 500, 50µm, Multimode Fiber

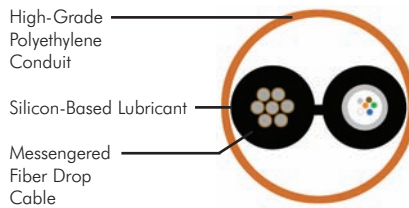
ZZ = Number of Fibers per Tube

Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White

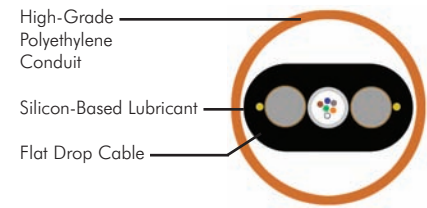
Solid Steel Messengered Fiber Drop In ConQuest Conduit (6 Fiber Construction Shown)



Standard Steel Messengered Fiber Drop In ConQuest Conduit (6 Fiber Construction Shown)



All-Dielectric Flat Drop Cable In ConQuest Conduit (6 Fiber Construction Shown)



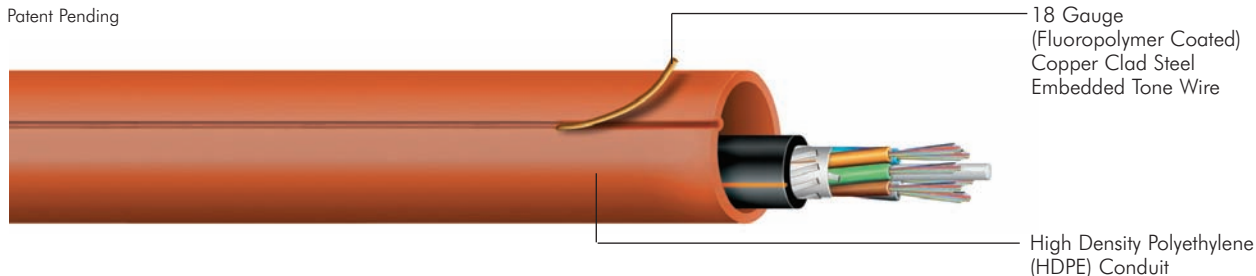
Drawings are not to scale
Specifications are subject to change without notice.

ConQuest® Toneable Conduit

For Locating and Protecting Underground Infrastructure

Shown with All Dielectric
Stranded Loose Tube Fiber Cable

Patent Pending



What's Most Important In Broadband Real Estate?

LOCATION...LOCATION...LOCATION!

Buried cable assets need to be found by broadband network owners and not by backhoe operators. CommScope rises to the challenge with ConQuest Toneable Conduit—a select grade high density polyethylene conduit with an integrated 18 gauge copper clad steel (CCS) tone wire.

This unique, patent-pending conduit, offers a large gauge fluoropolymer-coated tone wire fully embedded within a reinforced conduit wall. This design provides easy access to the tone wire at termination points by means of simply "ripping out" the wire with common hand tools.

Even better news—ConQuest Toneable Conduit **SAVES LABOR DOLLARS!** Install conduit, cable and tone wire all in one motion, with one product ConQuest Toneable Cable-In-Conduit.

Features

Benefits

- | | |
|--|---|
| • Fully embedded tone wire | • Precision locating of the conduit, with no special coupling requirements, and no field worries of wire and conduit separation |
| • High strength 18 gauge copper clad steel tone wire | • Easily extracted from the conduit wall without damaging the wire. Able to transmit a toneable signal over extended distances and depths |
| • Fluoropolymer coating on the tone wire | • Facilitates extraction from the wall and acts as moisture barrier where exposed |

Spliced ConQuest Toneable Conduit

(Shown at right with a T-Loc coupling.)
See the conduit accessories section for alternative couplers.



Insulation Data

Type	Fluoropolymer
Thickness	0.008 inches nominal
Dielectric Strength	3200 volts/mil
Tensile Strength	3000 psi
Elongation	250%

Conductor Data

AWG	18 gauge copper clad steel
Diameter	0.0403 inches
Resistivity	26.7 Ohms/1000 ft
Tensile Strength	120,000 psi
Max. Elongation	1%

ConQuest® Toneable Conduit



Dimensions and Specifications

SDR 11

Nominal Size	Nominal Outside Diameter (in.)	Minimum Wall Thickness (in.)	Nominal Inner Diameter (in.)	Min. Bend Radius Unsupported (in.)	Max Pulling Tension (lbs.)	Weight* (lb/kft)
3/4"	1.050	0.095	0.840	12	485	130
1"	1.315	0.120	1.055	14	760	210
1 1/4"	1.660	0.151	1.338	18	1,215	326
1 1/2"	1.900	0.173	1.533	20	1,410	422
2"	2.375	0.216	1.917	26	2,485	646

SDR 13.5

Nominal Size	Nominal Outside Diameter (in.)	Minimum Wall Thickness (in.)	Nominal Inner Diameter (in.)	Min. Bend Radius Unsupported (in.)	Max Pulling Tension (lbs.)	Weight* (lb/kft)
3/4"	1.050	0.078	0.874	12	405	111
1"	1.315	0.097	1.101	14	630	175
1 1/4"	1.660	0.123	1.394	18	1,010	281
1 1/2"	1.900	0.141	1.598	20	1,165	350
2"	2.375	0.176	2.002	26	2,065	538

SCH 40

Nominal Size	Nominal Outside Diameter (in.)	Minimum Wall Thickness (in.)	Nominal Inner Diameter (in.)	Min. Bend Radius Unsupported (in.)	Max Pulling Tension (lbs.)	Weight* (lb/kft)
3/4"	1.050	0.113	0.804	12	565	149
1"	1.315	0.133	1.029	14	840	225
1 1/4"	1.660	0.140	1.360	18	1,135	301
1 1/2"	1.900	0.145	1.590	20	1,360	359
2"	2.375	0.154	2.047	26	1,840	478

Other wall thicknesses may be available upon request. Specifications are subject to change without notice.

**Weight does not include the reel.

***Attention:** Pulling tensions can be influenced by temperature and soil conditions. Please refer to the ConQuest Installation Manual for proper installation techniques.

ConQuest® Toneable Conduit Catalog Numbering Key

Sample: Toneable 1 1/4" Black SDR 13.5 Ribbed with Orange Stripe & 1100 lb. Rope

125 B (TD) 135 TO RIB PP1100ROPE

Outer Diameter	Color	Toneable (TD)	Wall Thickness	Stripes (Tracers)	Wall	Pull Line
3/4" = 075 1" = 100 1 1/4" = 125 1 1/2" = 150 2" = 200	Terracotta = T Black = B Orange = O Grey = G Blue = U Green = E Yellow = Y White = W Brown = N Red = R	(TD)	SDR 11 = 110 SDR 13.5 = 135 SCH 40 = 040	Terracotta = TT Black = TB Orange = TO Grey = TG Blue = TU Green = TE Yellow = TY White = TW Brown = TN Red = TR No stripes = Omit	Smooth = Omit Ribbed = RIB	EMPTY DUCT PP200ROPE PP1100ROPE PE1200ROPE PE1800ROPE WP1100TAPE WP1800TAPE

Please contact Customer Service if you need assistance in building part numbers.

ConQuest® Conduit Accessories

Empty Conduit (CEC) Products



Ribbed Wall Empty Conduit

CommScope manufactures smooth wall or ribbed (internal surface finish) conduit in a variety of wall thicknesses, and with a selection of pull lines available. ConQuest Empty Conduit (CEC) provides superior protection and easy low friction placement of your valuable communications cable. CEC products are the same high quality as CommScope's Cable-In-Conduit (CIC) products.

Conduit Size	Internal Surface		Wall Sizes			Pull Ropes				Pull Tapes		
	Smooth	Ribbed	SDR 11	SDR 13.5	SCH 40	200lb.	1100lb.	1200lb.	1800lb.	1100lb.	1250lb.	1800lb.
13mm	•		H			•						
1/2"	•		H	M		•						
3/4"	•	•	H	M	X	•	•					
1"	•	•	H	M	X	•	•	•	•	•	•	•
1 1/4"	•	•	X	M	H	•	•	•	•	•	•	•
1 1/2"	•	•	X	M	H	•	•	•	•	•	•	•
2"	•	•	X	H	M	•	•	•	•	•	•	•
3"	•	•	X	H			•	•	•	•	•	•
4"	•	•	X	H			•	•	•	•	•	•

Key • = Available M = Medium H = Heavy X = Extra Heavy = Standard Product Offering

Available Pull Ropes and Pull Tapes



Polypropylene Pull Rope
(200 lb. shown)



Polyester Pull Tape
(Available in 1100, 1250 and 1800 lb.)



Polypropylene Pull Rope
(1100 lb. shown)



**Polyester Core
Polyethylene Braid Pull Rope**
(Available in 1200 and 1800 lb.)

ConQuest® Conduit Catalog Numbering Key For Empty Conduit (CEC) Products

Sample: 2" Terracotta SCH 40 Ribbed with Green Stripe & 1800 lb. Tape

200 T 040 TE RIB WP1800TAPE

Outer Diameter
13mm = 13M
1/2" = 050
3/4" = 075
1" = 100
1 1/4" = 125
1 1/2" = 150
2" = 200
3" = 300
4" = 400

Color
Terracotta = T
Black = B
Orange = O
Grey = G
Blue = U
Green = E
Yellow = Y
White = W
Brown = N
Red = R

Wall Thickness
SDR 11 = 110
SDR 13.5 = 135
SCH 40 = 040
SCH 80 = 080

Stripes (Tracers)
Terracotta = TT
Black = TB
Orange = TO
Gray = TG
Blue = TU
Green = TE
Yellow = TY
White = TW
Brown = TN
Red = TR
No Stripes = Omit

Wall
Smooth = Omit
*Ribbed = RIB

Pull Line
EMPTY DUCT
PP200ROPE
PP1100ROPE
PE1200ROPE
PE1800ROPE
WP1100TAPE
WP1250TAPE
WP1800TAPE

Please contact Customer Service if you need assistance in building part numbers.

*NOTE: Ribbed not available in 13mm and 1/2" conduit.

ConQuest® Conduit Accessories



WHUPP!® Cable Pulling Lubricant

CommScope offers a full line of accessories for use with our ConQuest Conduit Products, including cutters, couplings and lubricants. Please contact your CommScope sales representative for availability and pricing.

WHUPP!® Cable Pulling Lubricant

WHUPP is uniquely designed to address all the cable pulling requirements that customers demand in a lubricant.

Friction Reduction

WHUPP's unique formula contains microspheres that reduce surface contact and allow the cable to ROLL on thousands of tiny "ball bearings". This excellent friction-reduction feature, along with its slow-drying, superior-wetting and cling properties enables cable pulls through multiple bends and over long distances.

Safety Concerns



Personal Safety:

WHUPP is non-flammable, non-toxic, non-irritating to skin, and easy to clean up with soap and water.

Environmental

Safety: WHUPP is environmentally safe, made from INERT ingredients, and presents no air or water pollution concerns.

Cable Safety: WHUPP is recommended for use in all types of pulling operations. WHUPP is recommended for use with all types of polyethylene, vinyl, semi-conductive, and rubber cable jackets.

Installation Savings

WHUPP is designed to limit the cost burden of pulling cable. The recommended application rate for WHUPP is less than or equal to the following:

$$Q = 0.0015 \times L \times D$$

Q = Quantity needed in gallons

L = Length of the cable pull in feet

D = Nominal inside diameter of the conduit

For example...When pulling a cable through a 1" conduit over a distance of 1,000 feet:

$$Q = 0.0015 \times 1000 \text{ ft} \times 1 \text{ in} = 1.5 \text{ gallons}$$

NOTE: Double the calculation for corrugated conduit



Quart Size Bottle of WHUPP!

Packaging

WHUPP is conveniently packaged in the following sizes:

Container Size	WHUPP Packs	WHUPP Pallets
1 Quart size	24 per case	720 units
1 Gallon size	6 per case	162 units
5 Gallon size	NA	32 units

Typical Specifications

Appearance	Viscous, white liquid
Odor	Slight, non-objectionable
Ph	Neutral
Flash Point	No flash point to boiling
Freezing Point	30° F (-1° C)
Coefficient of Friction	0.14 per ASTM D 4172

Uniprise

Copper

Fiber

Coax

Multi-Conductor

Conduit

Packaging

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ConQuest® Conduit Accessories

Cutting Tools, End Caps and Couplings

Scissor Shears

Description	Manufacturers Part Number	Product Code
Scissor Shear	CQASC125	1160300
Blade for SC125	CQASC1268	1160400

Note: This tool is recommended for conduit sizes 13mm - 1"

Ratchet Shears

Description	Manufacturers Part Number	Product Code
Ratchet Shear	CQARS1	1160100
Blade for RS1	CQARS18	1160200

NOTE: This tool is recommended for conduit sizes 13mm - 1 1/4"

Tubing Cutter

Description	Manufacturers Part Number	Product Code
Tubing Cutter	CQATC2QP	1160000
Wheel for TC2QP	CQAOP2	1160500

NOTE: This tool is recommended for conduit sizes 1" to 2"

Conduit Finger End Caps

Description	Manufacturers Part Number	Product Code
13mm Finger Cap	CQACC7325	1160600
1/2" Finger Cap	CQACC7322	1160700
3/4" Finger Cap	CQACC7318	1160800
1" Finger Cap	CQACC7311	1160900
1 1/4" Finger Cap	CQACC7313	1161000
1 1/2" Finger Cap	CQACC7315	1161100
2" Finger Cap	CQACC7320	1161200

Aluminum Conduit Couplings

Description	Manufacturers Part Number	Product Code
1" Aluminum Threaded Coupling	BT-100	1162100
1 1/4" Aluminum Threaded Coupling	BT-125	1162200
1 1/2" Aluminum Threaded Coupling	BT-150	1162300
2" Aluminum Threaded Coupling	BT-200	1162400



ConQuest® Conduit Accessories



Conduit Couplings

Conduit Compression Couplings

Description	Manufacturers Part Number	Product Code
13mm Compression Coupling	CQACCOUP13MM	1161300
1/2" Compression Coupling	CQACCOUP050	1161400
3/4" Compression Coupling	CQACCOUP075	1161500
1" Compression Coupling	CQACCOUP100	1161600
1 1/4" Compression Coupling	CQACCOUP125	1161700
1 1/2" Compression Coupling	CQACCOUP150	1161800
2" Compression Coupling	CQACCOUP200	1161900



E-Loc® Couplings

Description	Manufacturers Part Number	Product Code
1/2" E-Loc Coupling	CQELOC050	1165300
3/4" E-Loc Coupling	CQELOC075	1164200
1" E-Loc Coupling	CQELOC100	1165200
1 1/4" E-Loc Coupling	CQELOC125	1163600
1 1/2" E-Loc Coupling	CQELOC150	1163700
2" E-Loc Coupling	CQELOC200	1163800
3" E-Loc Coupling	CQELOC300	1163900
4" E-Loc Coupling	CQELOC400	1164000



Double E-Loc® Couplings

Description	Manufacturers Part Number	Product Code
1" Double E-Loc Coupling	CQDELOC100	1164700
1 1/4" Double E-Loc Coupling	CQDELOC125	1164800
1 1/2" Double E-Loc Coupling	CQDELOC150	1164900
2" Double E-Loc Coupling	CQDELOC200	1165000



Toneable Conduit T-Loc® Couplings

Description	Manufacturers Part Number	Product Code
1" T-Loc Coupling	CQATCOUP100	1162800
1 1/4" T-Loc Coupling	CQATCOUP125	1162900
1 1/2" T-Loc Coupling	CQATCOUP150	1163000
2" T-Loc Coupling	CQATCOUP200	1163100
T-Loc Cap	CQATCAP	1163200



Uniprise

Copper

Fiber

Coax

Multi-Conductor

Conduit

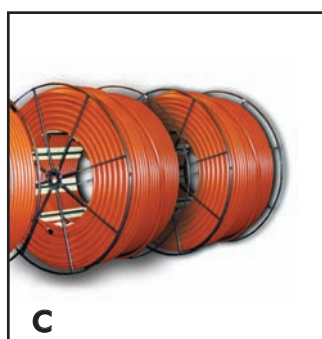
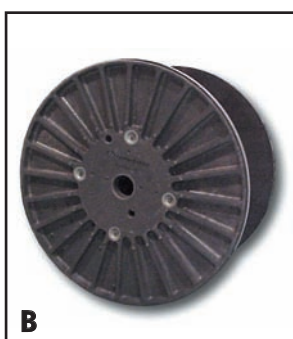
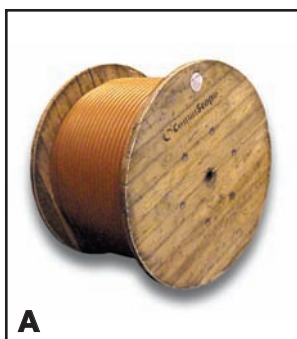
Packaging

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ConQuest® Conduit



Packaging and Shipping Information



ConQuest Reel Dimensions and Weight Chart (Standards in Bold)

Lengths*	13mm	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	3"	4"
500									102x74x43 217 lbs.
1,000	24x12x18 16 lbs.	35x16 1/2x18 60 lbs.	42x24x24 130 lbs.	50 x 24 x 24 182 lbs.	54 x 28 x 43 106 lbs.			102x64x43 217 lbs.	
2,500							90x43x43 195 lbs.		
3,000			54 x 28 x 43 106 lbs.	63x28x43 121 lbs.	68x43x43 132 lbs.	80x43x43 174 lbs.			
4,000							102 x 43 x 43 217 lbs.		
5,000			63 x 28 x 43 121 lbs.	68 x 28 x 43 121 lbs.	80 x 28 x 43 174 lbs.	102 x 43 x 43 217 lbs.			

(Flange x Drum x Traverse)

*Longer lengths may be available upon request.

Reel Stenciling

All wood reel heads are to be stenciled "COMMScope" and "MADE IN THE USA" (in black letters). All reel heads will be stenciled to identify reel size and date of reel manufacture, in 3/4" - 1" letters located below the arbor hole with diagram R-2 red roller system stencil ink or approved equivalent. All flanges (except 35" or smaller) cut with a start hole, must be stenciled with the warning "THIS SIDE UP" in 1 1/2" to 2" letters.

Reel Recycling

CommScope is equipped to serve cable companies like yours with Reel Recycling Centers on both sides of the country. Whether your load consists of reusable CommScope knocked down or assembled reels, wooden flanges, metal reels or a truckload of ReelSmart® composite reels, our Reel Recycling Coordinator can customize a program to fit your needs. Call the CommScope Reel Recycling Coordinator at 1.800.982.1708 for assistance in establishing a customized recycling program.

ConQuest® Conduit



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Palletization

24" reels are palletized (standard 8 reels per pallet) and stretched wrapped. For substandard palletizing: 4 reels per pallet, 2 reels per pallet, or 1 reel per pallet, shall be used.

End Preparation

The cable ends are secured to the conduit by a nylon cord, or CommScope approved equivalent, to ensure that the cable does not draw back into the conduit prior to installation. Each end shall be tightly sealed by a conduit end cap to prevent contamination ingress. For wooden reels, the bottom end shall be secured into the start hole by a chess board "stayback" or a CommScope approved equivalent. The top end of the conduit shall be secured to the flange by a metal pipe band or sufficient cable ties.

Reel Identification

Each reel tag for CIC (as shown below) shall provide the following information and instructions:

		3350008/24	
125 CommScope Way STATESVILLE, NC (USA) 28677-1876		001-001-001	
33-500-08 			
125T135P3500JCASS (5302203)PR01746	2440 FT 743.7 MT		
		CONQUEST™ 	
4910881 63 X 30 X 40 STEEL REEL (CIC)		09221 GX 63	
G2			

- CommScope's shipping Address
- CommScope's Product Code
- Length of the Cable inside the Conduit
- Product Description
- Reel Number and Bar Code
- Spectrum, Reel Size, and Manufacturing Date
- Special Comments (if needed)

Typical reel tag for CIC with P3 500 JCASS Product.

ConQuest® Conduit



Important Installation Information

Cable Withdrawal

ConQuest® CIC conduit is slightly longer than the coaxial cable it contains. Allow an average of 1.5% of cable withdrawal back toward the reel during unspooling (example: 2000' of conduit will yield 1970' of cable). Cable withdrawal will be greater as you approach the end of the reel.

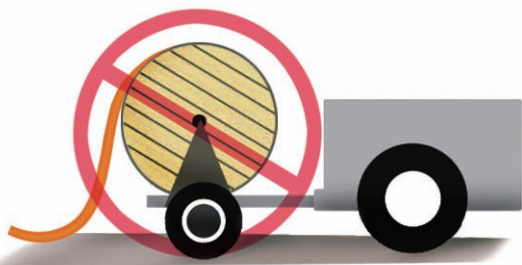
Cut the Restraint

Prior to installation of coaxial CIC, remove the conduit end cap and cut the cable restraint. This relaxes the cable and transfers all of the pulling tension to the conduit. When deploying fiber optic CIC, **DO NOT remove the conduit end cap or cut the cable restraint** prior to installation.

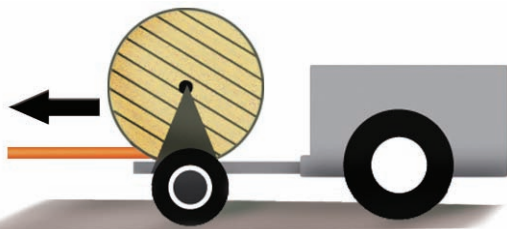
Payoff

When installing ConQuest, pay-off the reel from underneath and in as direct a line as possible to the trench to avoid unnecessary bending of the conduit or rubbing of the conduit against the reel flange.

INCORRECT METHOD



CORRECT METHOD



Conduit pay-off under reel drum

Bending Technique

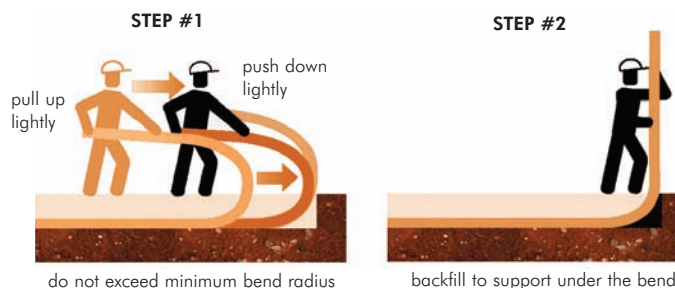
ConQuest Coaxial CIC can be easily shaped by rolling a bend into it. Take 10 - 12 feet (3 - 3.5 meters) of conduit and pull the free end of it towards you forming a "horizontal U". Push into the bend lightly and roll the entire radius of the conduit forward. **DO NOT** bend the conduit any further once it begins to show signs of ovality, i.e. begins to bulge. **DO NOT** press down on the conduit with your foot as you bend it.

INCORRECT METHOD

Do **NOT** press down with your foot



CORRECT METHOD



Padding

Utilizing sand for "padding", the conduit provides protection during future excavation near your facilities. The apparent change in soil condition provides warning that there is a utility buried there. This should not replace the practice of placing warning tape, but rather should serve as a supplement.

Wait One Hour

The effects of stress caused from pulling conduit through existing duct will cause the conduit to elongate (or stretch) in proportion to the amount of stress but less than 2% of the total length placed. Due to this effect, it is important to pull past the duct slightly. An allowance of at least one hour needs to be given for the conduit to "relax" before cutting and trimming it.

ConQuest® Conduit



Important Installation Information

Elongation of Conduit and Wire

CommScope toneable conduit is comprised of a sturdy 18 AWG copper clad steel tone wire embedded in a high-density polyethylene (HDPE) wall. During a normal installation, the conduit will elongate (normally 3 to 3.5%) and the steel wire will move within the HDPE wall freely. Elongation of the steel wire is approximately 1%, much less than the conduit. However, once the conduit reaches maximum elongation, the steel wire and the conduit can couple and begin to elongate together. At installation tensions beyond those recommended, the conduit can be elongated beyond the ability of the steel to compensate, and the steel wire may break. It is also possible for the steel wire to break free from the conduit wall as the conduit relaxes from extreme installation tensions, since plastic will recover (shrink) faster than the steel wire can compensate. Monitoring pulling tension, ensures maximum pulling tension is not exceeded, will avoid these conditions.

NOTE: The steel wire must not come in contact with the pulling eye. The steel wire should always be free at both ends to avoid a tensile break during installation.

CommScope's toneable conduit tone wire is coated with fluoropolymer which is a novel design feature that enables easy "rip out" of the tone wire from the conduit wall with only simple hand tools. The fluoropolymer allows the wire to move independently and eliminates potential stress on the combination of tone wire and conduit. However, tension and elongation on the conduit should remain within specifications.

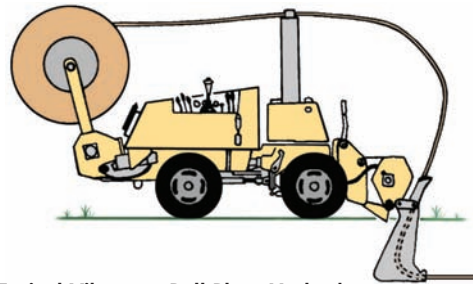
For successful installation of toneable conduit, environmental concerns and proper installation methods must be addressed. While open trench installation does not present a concern because of its inherent low tension, two other installation methods, horizontal directional drilling (HDD),



Typical Horizontal Directional Drilling (HDD) Method

and static/vibratory pull plowing present unique challenges. Each of these methods has specific guidelines for successful installations and among other considerations, installation crews need to be mindful of factors such as soil type, temperature, pulling speed, equipment used and slurry mix.

HDD can result in higher tensile loads due to the hole not being straight or level and the type of slurry mix used. When drilling, the drill head is capable of being moved in any direction which may be required to avoid objects encountered. During pull back, the drill operator can control tension on the pipe through speed, type and amount of slurry used. The tension monitoring gauge on the drill machine should be calibrated once a year.



Typical Vibratory Pull Plow Method

The Pull Plowing method requires the most attention of all in certain soil types and conditions. This method can create excess tension on the conduit due to the plow blade following the tractor over the terrain.

- The plow blade must have a cone or bullet of sufficient diameter to create a hole for the conduit either on the end of the blade or pulled behind.
- And ideal installation would be on flat terrain.
- Wet clay soil is very sticky and will create excessive tension.
- Sandy soil will collapse behind the cone creating additional tension.

Each of these situations may limit the installation to a short distance before the conduit and wire will elongate (stretch) to the point of breaking.

ALL PRECAUTIONS must be taken not to exceed maximum recommended pulling tension. Please refer to the CommScope ConQuest Conduit Catalog for specifications or visit our web site www.commscope.com

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ConQuest® vs. Traditional PVC Stick Pipe



ConQuest Cable-In-Conduit Outperforms Traditional PVC Stick Pipe

ConQuest high-density polyethylene conduit with factory pre-assembled CommScope cables (CIC) out performs traditional PVC stick pipe installations.

In Field Trials,

- A two-man installation crew was unable to install 600 feet of 2" PVC stick pipe in a trench, glue joints, install sweeps, blow pull line, and pull cable in **less than one hour.**
- A two-man installation crew was able to install 600 feet of 2" ConQuest Cable-in-Conduit in **less than ten minutes.**

NOTE: Time required to open and close the trench not included

In Product Comparisons,

- PVC stick pipe is traditionally manufactured in ten or twenty foot lengths that can be difficult to transport or handle.
- PVC stick pipe requires substantially more warehouse/yard space than HDPE on reels.
- Warehouse personnel must stock an assortment of PVC stick pipe components, such as sweeps, glues, preparation solvents, and pull lines to ensure that projects can be completed.

Criteria	Traditional PVC	ConQuest CIC
Requires sweeps and bends	Yes	No
Requires joints to be glued	Yes	No
Ground movement can cause separation	Yes	No
Installation can cause stress on cable	Yes	No
Susceptible to shattering at low temperatures	Yes	No
Low coefficient of friction	No	Yes
Internal lubrication	No	Yes
Continuous lengths	No	Yes
Can be plowed over extended distances	No	Yes
Faster more efficient installation	No	Yes

Direct Burial vs. ConQuest®



Direct Burial vs. ConQuest Empty Conduit or Cable-In-Conduit

Maximizing return on investment (ROI) is the number one goal of today's investor. That makes sense. But, what about tomorrow's investment?...And the day after?...And the day after that? Lowest initial investment does not guarantee the biggest return.

Today, broadband providers choose one or more of the following manners to address ROI in buried plant.

- Carefully limiting the cost of their initial investment
- "Reducing or eliminating" the cost and frequency of re-investments that are associated with system maintenance and upgrades
- Installing high quality or value-added products that "minimize the cost of their initial investment", and "reduce or eliminate" the future re-investment cost of system maintenance and upgrades.

DIRECT BURIAL of your cable certainly reduces your initial investment cost, but fails to address future costs.

- Initial investment...**Reduced**
- Material and labor costs associated with repairs and upgrades...**Increased**
- Lost revenue due to system downtime resulting from cable repairs or upgrades...**Increased**
- Lost customers due to system downtime...**Increased**
- Poor customer relations resulting from damaged landscape due to repairs or upgrades...**Increased**
- Inflationary material and labor costs...**Increased**

EMPTY HDPE CONDUIT adds to your initial investment cost, but addresses your need to reduce future costs.

- Initial investment due to materials...**Increased**
- Material and labor costs associated with repairs and upgrades...**Reduced**
- Lost revenue due to system downtime resulting from cable repairs or upgrades...**Reduced**
- Lost customers due to system downtime...**Reduced**
- Poor customer relations resulting from damaged landscape due to repairs or upgrades...**Generally Eliminated**
- Inflationary material and labor costs...**Reduced**

CABLE-IN-CONDUIT addresses the same future costs savings as Empty HDPE conduit, while reducing initial costs versus other conduit options. Other advantages of CIC include:

- Installation time...**Reduced**
- Labor costs associated with pulling cable...**Reduced**
- Potential for cable stress and damage due to improper field handling...**Reduced**
- Space required for storage of both conduit and cable...**Reduced**

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ConQuest® Toneable Conduit™



Technical Report

Introduction

Traditional approaches to making underground facilities locatable required extra material and labor costs. Many system operators have even cited that sometimes the wire or tape was “forgotten” or they were “out of the material” during construction, making an expensive solution even more costly. Additionally these methods are not always reliable, subject to damage and degradation.

Now the solution is simple, reliable and most of all, affordable. CommScope’s revolutionary Toneable Conduit can provide you with confidence in knowing the location can easily be found.

CommScope’s Toneable Conduit is a unique product that combines a polyethylene conduit with an integrated toning wire. Buried toneable conduit is easily located using tone detection locating equipment. The toning wire has a novel feature that enables it to be ‘ripped’ or pulled out of the conduit wall with simple hand tools, enabling easy access for toning and/or splicing to subsequent lengths.

Product Discussion

CommScope toneable conduit is made from high quality high-density polyethylene (HDPE). The conduit meets industry standard wall thickness in 1, 1 1/4, 1 1/2, and 2 inch diameters. The polyethylene is blended with a premium UV stabilization and protection package. Color concentrate chips can be added to produce the conduit in an array of colors.

Our unique toning wire is 18-gauge copper clad steel (CCS) coated with a fluoropolymer jacket. The wire is embedded in the wall of the conduit. An 18-gauge wire was selected to maintain wall thickness and provide optimal tone carrying characteristics. CCS provides the necessary amount of copper to carry a tone over long distances and a steel core that is more durable than a solid copper wire. CCS is easily ripped out of the wall without the wire breaking. The wire meets the specifications listed on page 376 of this catalog.

The fluoropolymer-coated wire is designed to be ‘ripped’ out of the conduit wall using simple hand tools. The fluoropolymer allows the wire to move independently of the conduit eliminating stresses on the wire and conduit, and eases the separation of the wire from the wall of the conduit. The fluoropolymer coating also provides critical insulative and corrosion protection to the ‘exposed’ wire.

Fluoropolymer, the polymer group that includes Teflon®, was ultimately selected because it offers higher resistance to chemicals, water, and abrasion relative to plastics.

Other composite materials, such as polyurethane/nylon, fail to offer the necessary resistance. Nylon, in particular, is subject to attack by strong mineral acids and has a high rate of water absorption.

The Function of Toning

Toning is a method of using a generated signal, or ‘tone’, that is transmitted over a conductor so that the portion of the conductor buried below the earth’s surface can be located without digging.

The tone is produced at a very low frequency with a transmitter tuned to a particular frequency. The frequency range available on the transmitter varies between manufacturers but often ranges from 400Hz to about 80KHz. Transmission power is often variable and is usually controlled in a range of 0.033 watts up to 5.0 watts. A ‘radio’ receiver tuned to the transmit frequency is then used to precisely locate the energized wire.

The set-up requires that a transmitter be attached to the conductive material that will act as an ‘antenna’ and that a ground plane be established at the end of the antenna to close the circuit.



ConQuest® Toneable Conduit™
(Patent pending)

Installation Notes

Typical installations will consist of direct burial in an open trench, directional bores, static plowing or vibratory plowing. The design of this revolutionary conduit with the tone wire embedded within the conduit wall lends itself to all applications. The sturdy 18 AWG copper clad steel wire is protected by both the HDPE wall and the fluoropolymer insulation around the wire.

During a normal installation, the conduit may have several splice points either in the trench, pull box or in above ground enclosures. The tone wire can be

ConQuest® Toneable Conduit™



Technical Report

spliced together at these locations for a longer tone length, possibly beyond 5 miles (depending on burial conditions and the toning equipment used).

Splicing the wire together can be accomplished in a variety of ways. As with any insulated wire some of the fluoropolymer jacket must be removed before crimping on the connector. A minimal amount of fluoropolymer jacket should be removed to make the connection, leaving the remainder of the jacket intact to protect the wire from corrosion.

- Simple wire splices for 18 AWG copper clad steel wire can be used and environmentally protected with a self-healing waterproof tape.
- All splices below grade must be environmentally sealed against the elements.
- Splices above grade such as inside an enclosure should have the ends sealed with tape.
- At each end of the conduit, the wire should be ripped from the conduit to a length long enough for splicing or grounding.
- Using pliers and tubing cutter, ripping the wire from the conduit is simple and easy.
- Do not ground the 18 AWG copper clad steel wire within the system. Grounding of the tone wire should only be done for toning.

Note: Installations where the conduit is used as a riser to the strand and the wire is exposed may be subject to local authority.

Field Trial

Location	Catawba, NC (CommScope Test Site)
Date	February 15, 2002
Product	Two inch Schedule 40, Terracotta with insulated 18 AWG copper clad steel
Length	2,200 feet
Equipment	DitchWitch® 950R/T 3M-753 Dynatel®

This trial was conducted to measure the performance abilities of the toneable conduit. The conduit was installed into an open trench at depths of one to three feet.



For toning, CommScope recommends equipment such as the DitchWitch 950R/T (shown above).

- In the first test, a DitchWitch 950R/T was set at its lowest power settings (1 KHz at 0.033 watts) with only the transmitter end grounded. The 2,200 feet of conduit was easily located and the depth measured was accurate within three inches.

In the second test, approximately 2,000 feet of tone wire was attached to one end of the conduit above ground. Again, the DitchWitch 950R/T with the same settings (1 KHz at 0.033 watts) located and toned the 4,200 feet length.



ConQuest Toneable Conduit undergoes rigorous field testing to ensure the same quality as our other products.

The same results were achieved with the 3M® Dynatel unit.

There are ten power settings on each frequency on the DitchWitch 950R/T, 1 being the lowest at 0.033 watts and 10 being the highest at 3.0 watts. It is possible that a tone would be obtainable over 5 miles using higher levels.

Summary

Constructing networks that require provisioning for toneable locating can now be achieved using CommScope's Toneable Conduit. The conduit is designed to the same high standards used in all of CommScope's ConQuest conduit family. The unique design of the toneable conduit makes it easy to install and easy to locate.

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Technical Report - Out of Sight Might Make You Go Out of Your Mind



Big Money is Lost When Locating Loses Priority

Someone recently asked me, "What is the fastest way to find a buried telecommunications cable?" Being a little too spirited, I jested, "With a backhoe." You're probably thinking this cannot be for real. Unfortunately, I could not be any more real.

Suburban sprawl has prompted community builders to create an aesthetically pleasing environment and to remove unsightly utility poles from landscapes. Although this placement of utilities has been common practice in new-build constructions for some time, it is starting to get noticed by older or urban communities that had long been used to the presence of utility poles. Over the past few years, in fact, a growing number of communities had proposed legislation for the removal of utility poles. This, of course, requires that utility operators relocate their facilities. Where? You got it – underground.

The advantages of underground installation are proven time and again. Of course, public safety is improved by eliminating the hazards of automobile collisions with utility poles and downed lines during severe weather conditions. Utility operators and their customers then benefit from the reduction in outages created by these events. What's more, maintenance requirements and expense

for underground plant are significantly lower than aerial plant that is constantly exposed to a harsh environment.

The disadvantages are less obvious. There is a lot of digging going on around communities, and utility easements are becoming more and more congested. And when excavation for the buried utilities begins, the problems accumulate quickly if effective locating is not done. Here, we will discuss the consequences of not properly locating utilities, and we'll discuss best practices for building an accurately locatable underground plant.

Is Your Locating System Booby Trapped?

As a result of many early excavation fatalities, the federal government passed legislation 29 CFR 1926.651* as a measure to protect workers from the hazards of excavating in areas where buried utilities are located.

Thankfully, today 49 states (not Hawaii) have passed legislation to mitigate excavation damage. These state laws require that the location of buried utilities be marked to both protect workers and prevent utility service disruption. In most states, the law will not afford utility operators the right to recover damages if they failed to properly locate their subsurface plant when a locate was properly requested. Despite this legislation, underground utilities continue to be damaged at alarmingly high rates, and the severity of the damage has increased as the underground continues to get more and more congested.

A recent study conducted by the U.S. Department of Agriculture found that 25% of hits on located facilities were due to mislocates. In the past five years, there has been a nation-wide annual average of 21 major underground fiber optic cables cut, and 39 underground copper trunk cables cut where locates were off the mark and underground excavations found them.

The service disruptions from these events affect 911 services, local telephone service, long-distance service, and nationwide data networks. Service disruption is of particular concern when it comes to fiber optic cables. With each optical fiber capable of carrying as many as 30,000 circuits, the revenue loss from service disruption on a single optical fiber can be as high as \$175,000 per minute or more.

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Location Options

Most providers understand the need for a locatable system, but building it can be more challenging. While there are nearly two dozen geophysical methods for locating buried facilities, they can be categorized into three types of systems commonly used today: passive magnetic systems, electronic marking systems and radio detection systems.

Type A: Passive magnetic systems work on the principle of placing a magnet, or more often a strip of magnets, in close proximity to the utility lines to create a magnetic disturbance that can be detected using a magnetometer. These are best suited for areas where no other utilities are located and away from large mineral deposits.

- **Advantages:** Least expensive to deploy.

- **Limitations:** Magnetic anomalies can occur, and are often created by other ferrous objects in the ground such as water or gas pipelines and some types of mineral deposits. Creating conflicting detections and a mislocation of the intended target utility.

Type B: Electronic Marking Systems (EMS) use a technology that is considered a passive circuit, which is usually contained in a plastic ball or disc that is placed in the trench with the utility. To locate the passive circuit, a marker locator is used to excite the tuned circuit in the marker. This causes the passive circuit to produce a spherical RF field that can then be detected by the marker locator.

- **Advantages:** These devices provide a higher degree of accuracy attributed to each utility using an assigned frequency for their EMS system.

- **Limitations:** Most systems require a specific orientation of the marker so that the RF field is aligned for surface detection and this technology can be efficiently deployed only in open trench construction. Due to the cost, markers are usually spaced to optimize the RF field's footprint from one marker to the next. This may result in the locator hunting for the next marker, particularly when the utility changes direction.

Type C: Radio detection systems, more commonly known as tone location or tone detection, operate on the principle of inducing a tone on a conductor (metallic material) that acts as an antenna. This transmits the signal through the ground that can be intercepted by a radio receiver tuned to the transmitter's frequency.

- **Advantages:** The ability to discern the intended target more accurately by seeking a specific frequency transmitted over wire that is continuous and follows the changes in utilities direction and can tolerate greater depth capabilities.

- The key to the use of tone locating technology is the metallic conductor used. A fiber optic cable may contain a steel armor, which can be toned, or may have an all-dielectric construction (no metal). Steel armor is not a very good conductor for radio frequency signals as it is a highly resistive metal, greatly limiting the range of accuracy using tone location. **Essentially, this makes it imperative to use a tone wire not only with an all-dielectric cable but also with an armored cable.**

- **Limitations:** Copper wires are commonly used for the tone wire, since copper provides the best path for the radio frequency (tone) to travel on. The downside to a solid copper wire as a conductor is that the malleability of the material is too great; this limits its tensile strength. This limited tensile strength can present problems if the wire is being pulled in during boring installations or when backfilling an open trench. These activities can easily result in excessive tension, breaking the wire and losing continuity.

- To avoid concerns of tensile strength issues, a copper clad steel (CCS) wire may be used. The CCS wire increases the tensile strength significantly. This thin layer of copper is equally capable of carrying the tone signal across distances at a fraction of the cost of solid copper wire.

- Most systems use a wire size ranging from 22 AWG to 10 AWG. But, an 18 AWG wire size will suffice, since smaller sizes attenuate signals at a greater rate and affect the range of accuracy. Larger wire sizes are overkill, wasting material and money.

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"In the past five years, there has been a nation-wide annual average of 21 major underground fiber optic cables cut, and 39 underground copper trunk cables cut where locates were off the mark and underground excavations found them."

Going the Distance

Most providers want to deploy technologies and systems that will go the distance and stand the test of time. Placing cables underground is a big investment in initial labor and a minimal investment in material. Therefore, the providers' goal should be to establish a locate system that is as reliable as the network itself.

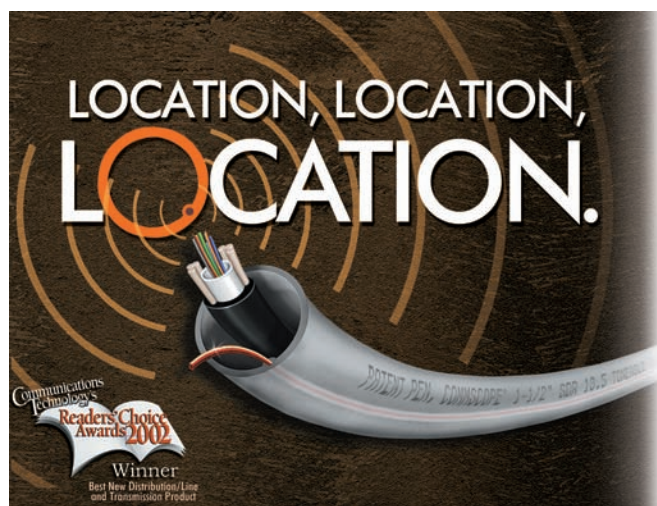
One method used in the field to improve on locating accuracy is to place an external tone wire with cable or conduit during the installation process. This can result in breaking the wire or damaging the jacket and contributes to wire corrosion or potential failure.

To remedy this situation, some suggest installing the wire inside a conduit with the fiber or even in a separate conduit placed alongside the fiber cable's conduit. With this, however, they risk the fiber wrapping around the wire during installation, increasing the pulling tension and restricting cable movement.

Alternatively, cable pulling tapes have been produced with a wire woven into their construction. While these products tend to lie flat in the conduit, they also present unique challenges. One common problem is that construction crews may use the tape to pull a cable into the conduit, not realizing that they are removing the only possible way of locating that fiber in the future.

To overcome these issues, CommScope has developed specialized conduits that incorporate a tone wire into the construction of the conduit itself. These toneable conduits create a one-step, one-material installation while providing additional protection to the wire with the surrounding polyethylene. Our embedded wall design is ConQuest® Toneable Conduit™.

Proper installation of a tone wire is guaranteed with this kind of system. In addition, pinpoint accuracy is achievable. Some plant and construction managers have cited reduced installation costs as a result of the integrated installation process that toneable conduit products offer.



CommScope's ConQuest Toneable Conduit

The ability to consistently locate underground facilities with accuracy can best be achieved by using the "Type C" option discussed in this article. By establishing a reliable detecting system, workers, utility owners, and customers can have confidence in quality locates that will protect buried utilities for years to come.

Reprinted with permission from Outside Plant Magazine, November 2002.

ConQuest® Conduit™



MSO Case Study: Drop-In-Conduit Found to Reduce Truck Roll Trouble Calls by 70%

Introduction

This comparative test was conducted by a major multiple system operator (MSO) to determine the impact on reliability of placing drops in conduit. A drop not requiring a truck roll during its lifespan reduces operating expenses while promoting greater customer satisfaction. The comparison of drop-in-conduit to direct buried drops was conducted in two areas chosen for having similar numbers of trouble calls reported. The first area, Test Area A, had its drops installed exclusively in conduit. The second area, Test Area B, had its drops installed exclusively as direct buried. The number of truck roll trouble calls for cut or damaged drops in each area was then recorded over a 1-year period. The drop-in-conduit installation produced a 70% reduction in truck rolls, saving \$9,600 over the first year.

Test Areas

Test Area "A": 3 subdivisions in metropolitan Florida built exclusively with drop cable preinstalled in conduit.

Test Area "B": 3 subdivisions in metropolitan Florida built exclusively with direct buried drop cable.

Test Area	Total Calls	Drop Related Calls	Percentage
A	3114	56	.8%
B	3120	184	5.9%

At the end of one year, it was found that there were 128 less truck roll trouble calls for cut or damaged drops in Test Area A where all the drop cables had been installed exclusively in conduit. This resulted in 70% less total truck roll trouble calls for Test Area A as compared to Test Area B with its directly buried drops.

Cost Savings Comparison

Using \$75.00 for the estimated cost of each truck roll and multiplying that number by 128, which is the number of avoided truck rolls, a savings of \$9,600 is recognized in one year alone. This cost savings would continue to improve over time and an additional cost savings for labor would be realized should the drops ever need to be upgraded, since new cable could be pulled directly through the existing installed conduit. Deploying drop-in-conduit does involve additional material and labor costs initially. A drop-in-conduit can cost approximately 12 cents more per foot than flooded cable alone. In addition, the extra labor cost for installation of drop-in-conduit averages about \$15.00 per job for installations involving less than 200 feet.

Costs Associated with Drop-Related Truck Roll Trouble Calls in One Year



The cost can vary depending upon regional soil conditions. 100 feet of direct buried drop from the tap averages about \$40.00 per installation. 100 feet of drop-in-conduit from the tap averages about \$27.00 more per installation or \$67.00 per job. The figure \$27.00 is based on \$12.00 more in material plus \$15.00 more in labor as compared to the cost of installing a direct buried drop.

Conclusion

This case study shows that within one year there is 70% less trouble calls for damaged or cut drops when conduit is used. Each drop-in-conduit installation costs \$27.00 more than direct buried installations, but \$9,600 is saved in reduced truck rolls each year. The cost savings is anticipated to improve even more over time and additional labor cost savings realized with any plant upgrades involving new cable directly pulled through the existing conduit. Additionally, one of the primary benefits of drop-in-conduit versus direct buried is a corresponding increase in customer satisfaction with the 70% reduction in trouble calls. Satisfaction is directly associated with the customer's perceived better reliability for video, high speed and digital voice services. Customer satisfaction means customer retention and customer retention means profitability.

P A C K A G I N G & S H I P P I N G

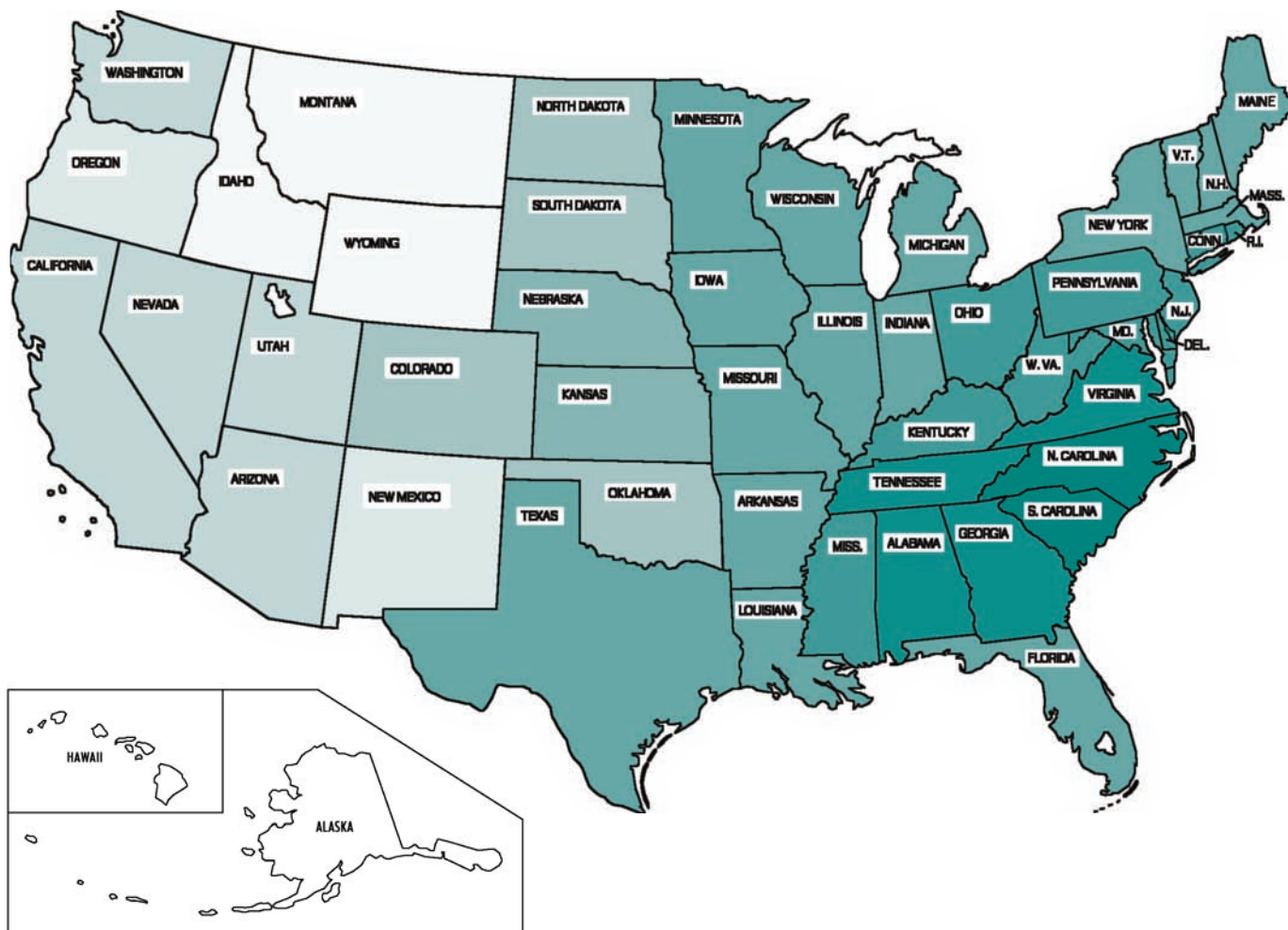
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Packaging and Shipping

Shipping dates specified herein or otherwise communicated to Buyer are estimates given to the best of Seller's knowledge based upon conditions existing at the time of the order and upon information furnished by Buyer. Seller will, in good faith, endeavor to ship by the estimated shipping date, but shall not be responsible for any delay or any damage arising therefrom. Seller does not and shall not guarantee any shipping date unless such guarantee and the terms thereof are specifically stated in writing. Any such guarantee shall be strictly limited to the exact terms so stated.

International shipping policies available upon request.



-  1 Day
  2-3 Days
  4-5 Days
  6 Days
-  1-2 Days
  3 Days
  5 Days
-  2 Days
  3-4 Days
  5-6 Days

CommScope Shipping Policies



Destination	Transit
Alabama	.1-2 Days
Alaska	.6 Days
Arizona	.4-5 Days
Arkansas	.2-3 Days
California	.4-5 Days
Colorado	.3-4 Days
Connecticut	.2 Days
District of Columbia	.2 Days
Delaware	.2 Days
Florida	.2-3 Days
Georgia	.1-2 Days
Hawaii	.6 Days
Idaho	.5-6 Days
Illinois	.2-3 Days
Indiana	.2-3 Days
Iowa	.2-3 Days
Kansas	.3 Days
Kentucky	.2 Days
Louisiana	.2-3 Days
Maine	.2-3 Days
Maryland	.2 Days
Massachusetts	.2-3 Days
Michigan	.2-3 Days
Minnesota	.2-3 Days
Mississippi	.2 Days
Missouri	.2-3 Days

Destination	Transit
Montana	.5-6 Days
Nebraska	.3 Days
Nevada	.4-5 Days
New Hampshire	.2-3 Days
New Jersey	.2 Days
New Mexico	.5 Days
New York	.2-3 Days
North Carolina	.1 Day
North Dakota	.3-4 Days
Ohio	.2 Days
Oklahoma	.3-4 Days
Oregon	.5 Days
Pennsylvania	.2 Days
Rhode Island	.2 Days
South Carolina	.1 Day
South Dakota	.3-4 Days
Tennessee	.1-2 Days
Texas	.2-3 Days
Utah	.4-5 Days
Vermont	.2-3 Days
Virginia	.1-2 Days
Washington	.4-5 Days
West Virginia	.2 Days
Wisconsin	.2-3 Days
Wyoming	.5-6 Days

Uniprise

Copper

Fiber

Coax

Multi-Conductor

Conduit

Packaging

Glossary/Index

P A C K A G I N G & S H I P P I N G

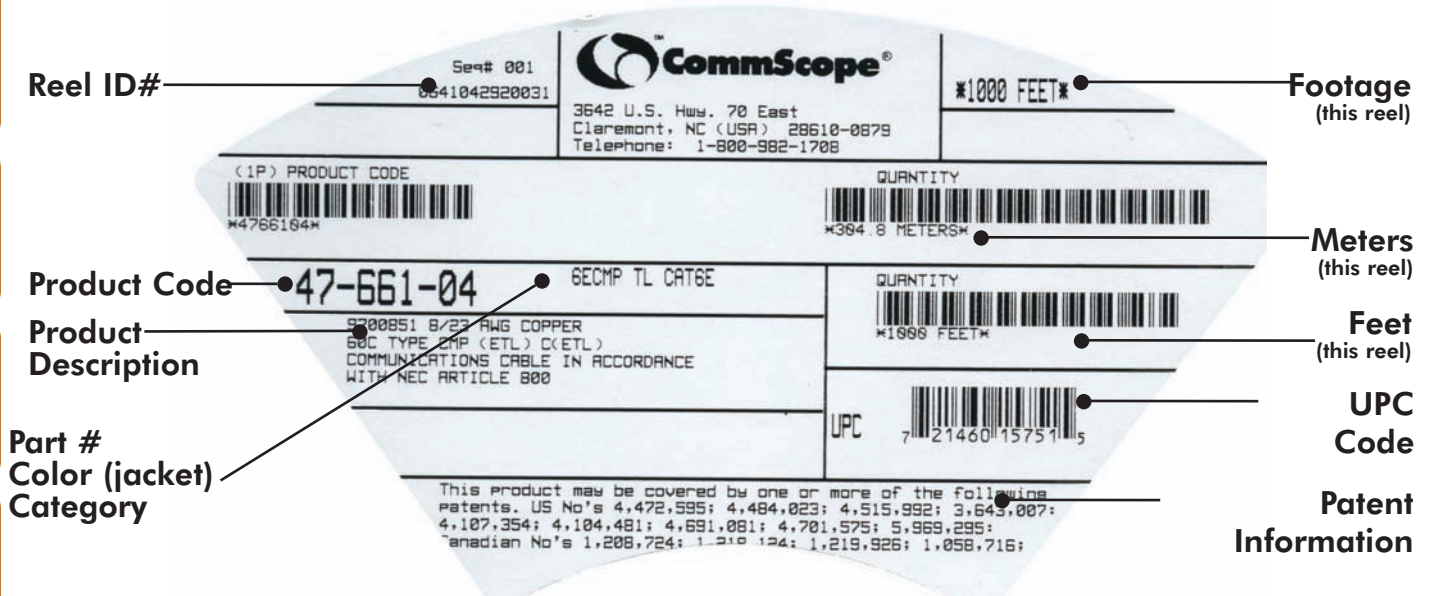
Packaging

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Coaxial Packaging & Shipping	444
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Twisted Pair Packaging & Shipping

Packaging Identification System

Reel Label Description



Color Identification System

UltraPipe	Teal (TL)
UltraMedia	Blue (BL)
Media 6	Black (BK)
Ultra II	Red (RD)
DataPipe	Purple (PU)



Plenum: White Box
Non-Plenum: Kraft Box

Twisted Pair Packaging & Shipping



LAN Packaging Matrix - Standard 1,000 ft Put-Ups

Category	Product Family	Catalog Number	Plenum/ Non-Plenum	Rating	Wooden Reels Box/Pallet	Plastic Reels Box/Pallet Pallet Size: 48x40x4 Package Color: Black	Plastic Reels Box/Pallet Pallet Size: 42x42x4 Package Color: Black	CommPak		Reel-In-Box	
								Box/Pallet 275lb. rated Corrugated Pallet Size 42x42	Package Color	Box/Pallet 275lb. rated Corrugated Pallet Size 48x40	Package Color
Category 6e	UltraPipe	6ECMP	Plenum	CMP		12x5x12				12.5x11.5x11.5	White
	UltraPipe	6ECMR	Non-Plenum	CMR		12x5x12				12.5x11.5x11.5	Kraft
Category 6	UltraMedia	7504	Plenum	CMP		12x5x12		14x10x14	White	12.5x11.5x11.5	White
	UltraMedia	75N4	Non-Plenum	CMR		12x5x12		14x10x14	Kraft	12.5x11.5x11.5	Kraft
Category 6	Media 6	6504+	Plenum	CMP		12x5x12		14x10x14	White	12.5x11.5x11.5	White
	Media 6	65N4+	Non-Plenum	CMR		12x5x12		14x10x14	Kraft	12.5x11.5x11.5	Kraft
	Media 6	6NF4+	N/A Outdoor	Outdoor		12x5x12					
Category 5e+	Ultra II	5504M	Plenum	CMP			10.5x3.5x9.5			12.5x11.5x11.5	White
	Ultra II	5524M	Plenum	CMP	14.5x6x1						
	Ultra II	55N4R	Non-Plenum	CMR			10.5x3.5x9.5			12.5x11.5x11.5	Kraft
	Ultra II	5N54	Non-Plenum	CMR	14.5x6x13						
	Ultra II	5NF4	N/A Outdoor	Outdoor		12x5x12					
Category 5e	DataPipe	5E55	Plenum	CMP			10.5x3.5x9.5	14x10x14	White	12.5x11.5x11.5	White
	DataPipe	5E40	Plenum	CMP			10.5x3.5x9.5			12.5x11.5x11.5	White
	DataPipe	5EN5	Non-Plenum	CMR			10.5x3.5x9.5	14x10x14	Kraft	12.5x11.5x11.5	Kraft
	DataPipe	5ES4	Plenum	CMP		12x5x12					
	DataPipe	5E25	Plenum	CMP	30x12x12						
	DataPipe	5EN25	Non-Plenum	CMR	30x12x12						
	DataPipe	5EF4	N/A Outdoor			12x5x12					
	DataPipe	5ENS4	Non-Plenum	CMR		12x5x12					
Category 3	Category 3	3504	Plenum	CMP			10.5x3.5x9.5	14x10x14	White	12.5x11.5x11.5	White
	Category 3	35N4	Non-Plenum	CMR			10.5x3.5x9.5	14x10x14	Kraft	12.5x11.5x11.5	Kraft
	Category 3	3506	Plenum	CMP	14.5x6x13						
	Category 3	35N6	Non-Plenum	CMR		10.5x3.5x9.5					

Uniprise

Copper

Fiber

Coax

Multi-Conductor

Conduit

Packaging

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Twisted Pair Packaging & Shipping



LAN Packaging Matrix - Custom 2,000, 3,000, 4,000 and 6,000 ft Put Ups (Reels Only)

Catalog Number	2K				3K				6K			
	Reel for 2K	Reel Weight	Reels/Pallet	Pallet for 2K	Reel for 3K	Reel Weight	Reels/Pallet	Pallet for 3K	Reel for 6K	Reel Weight	Reels/Pallet	Pallet for 6K
6ECMP	18x6x11	6.5	15	44x44	22x6x11	11	12	44x44	30x12x12	23	3	30x30
6ECMR	18x6x11	6.5	15	44x44	22x6x11	11	12	44x44	30x12x12	23	3	30x30
7504	14.5x4x11	4	27	44x44	18x6x11	6.5	15	44x44	30x12x12	23	3	30x30
75N4	18x6x11	6.5	15	44x44	22x6x11	11	12	44x44	30x12x12	23	3	30x30
6504+	14.5x4x11	4	27	44x44	18x6x11	6.5	15	44x44	30x12x12	23	3	30x30
65N4+	18x6x11	6.5	15	44x44	22x6x11	11	12	44x44	30x12x12	23	3	30x30
65S4+	18x6x11	6.5	15	44x44	22x6x11	11	12	44x44	30x12x12	23	3	30x30
6NF4+	18x6x11	6.5	15	44x44	22x6x11	11	12	44x44	30x12x12	23	3	30x30
65NS4+	18x6x11	6.5	15	44x44	22x6x11	11	12	44x44	30x12x12	23	3	30x30
5504M	14.5x4x11	4	27	44x44	18x6x11	6.5	15	44x44	30x12x12	23	3	30x30
5524M	30x12x12	23	3	30x30	30x12x12	23	3	30x30	35x16x18	65	1	36x36
55N4R	14.5x4x11	4	27	44x44	18x6x11	6.5	15	44x44	22x6x11	11	12	44x44
5N54	30x12x12	23	3	30x30	35x16x18	65	1	36x36	42x24x24	99	1	42x42
5NF4	18x6x11	6.5	15	44x44	22x6x11	11	12	44x44	22x6x17	11.6	8	44x44
5E55	12x4x12	2.4	36	48x40	14.5x4x11	4	27	44x44	22x6x11	11	12	44x44
5EN5	14.5x4x11	4	27	44x44	18x6x11	6.5	15	44x44	22x6x11	11	12	44x44
5ENS4	18x6x11	6.5	15	44x44	22x6x11	11	12	44x44	30x12x12	23	3	30x30
5E40	12x4x12	2.4	36	48x40	14.5x4x11	4	27	44x44	22x6x11	11	12	44x44
5EF4	18x6x11	6.5	15	44x44	22x6x11	11	12	44x44	30x12x12	23	3	30x30
5ES4	18x6x11	6.5	15	44x44	22x6x11	11	12	44x44	30x12x12	23	3	30x30
3504	12x4x12	2.4	36	48x40	14.5x4x11	4	27	44x44	22x6x11	11	12	44x44
35N4	12x4x12	2.4	36	48x40	14.5x4x11	4	27	44x44	22x6x11	11	12	44x44
3506	18x6x11	6.5	15	44x44	22x6x11	11	12	44x44	30x12x12	23	3	30x30
35N6	18x6x11	6.5	15	44x44	22x6x11	11	12	44x44	30x12x12	23	3	30x30

*Full pallet quantities are required when ordering custom lengths.

Catalog Number	4K			
	Reel for 4K	Reel Weight	Reels/Pallet	Pallet for 4K
5E25	42.5x24x24	10.9	1	42x42
5EN25	42.5x24x24	10.9	1	42x42

*Tolerance of +/- 5% on all custom lengths.

Fiber Optic Packaging & Shipping



Shipping Information

Shipping Information

Packaging and Shipping

Fiber optic cable is packaged for shipment on wooden or composite reels. Each package contains only one continuous length of cable. The packaging is designed to prevent damage to the cable during shipping and handling. Fiber cable reels are protected with a "reel wrap", the highest technology available today. This wrap is stronger, lighter and more environmentally friendly than other methods of lagging. In addition, reel wrap is simple to remove from the reel and readily disposable. All reel sizes between 35 and 88 inches will be blocked and palletized to help ensure safe arrival to the customer. Reels larger than 88 inches are placed on the rolling edge and securely fastened to the trailer during shipment.

Each reel is plainly marked to indicate the direction in which it should be rolled to prevent loosening of the cable on the reel.

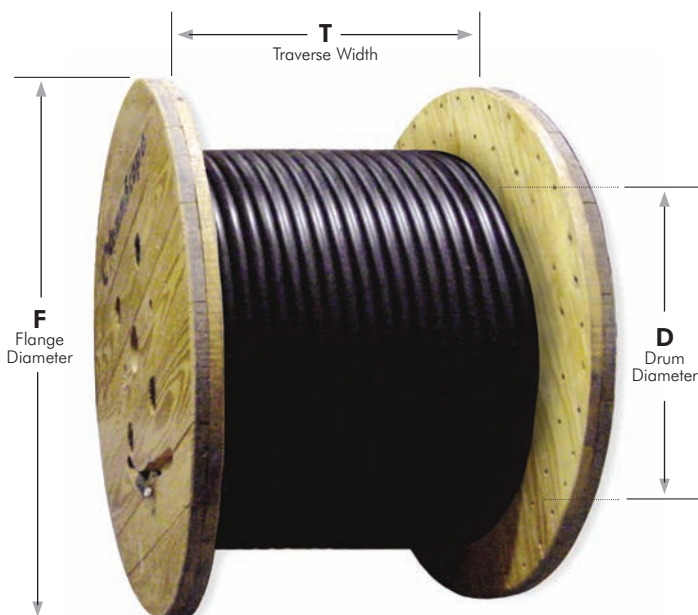
Method of Shipment

CommScope's customary method of shipment of fiber optic cable from Claremont, North Carolina to the purchaser's site will vary depending on factors such as the size and number of cable reels, and the destination location. Shipper options include Federal Express, UPS, BAX, LTL motor freight carriers and CommScope's own

fleet of trucks, "Cable Transport". Some trucks within CommScope's fleet are equipped with "Cargo Master" equipment for ease in unloading cable reels on location where no loading dock is available. CommScope has red arm Cargo Masters, which can lift anything 2,500 pounds or less. CommScope also has white arm Cargo Masters which will lift anything up to 8,000 pounds that is on an 84" reel or smaller. These specially equipped trucks are available by request.

International Packaging

Products shipped outside the continental United States are protected with reel wrap, lagged with wood, and blocked and palletized (for reel sizes between 35 and 88 inches) or placed on the rolling edge and securely fastened to international shipping containers.



Fiber Optic Packaging

Shipping Information

Outside Plant All Dry Stranded Loose Tube Non-Armored (LN) Cables Gel-Free Buffer Tube

Flange x Drum x Traverse	Reel Weight (lbs)	2-60F 5@1	62-72F 6@1	74-96F 8@1	98-120F 10@1	122-144F 12@1	146-216F 12@6@1	218-288F 15@9@1
35 x 16.5 x 18**	70	4,756	4,266	3,302	2,774	2,125	2,061	1,450
42 x 24 x 24**	109	8,757	7,971	6,181	4,686	3,873	3,790	2,721
42 x 22 x 29.75	118	11,231	10,207	7,968	6,298	4,709	4,728	3,375
48 x 22 x 32.5	176	18,238	16,719	13,027	10,704	7,974	7,961	6,073
54 x 24 x 28	370	20,913	19,466	14,803	11,514	9,005	8,854	6,520
60 x 30 x 32	433	27,909	25,764	19,637	15,543	11,888	11,710	8,594
66 x 30 x 32	506	37,565	33,798	25,652	20,932	15,795	15,571	11,227
72 x 36 x 36	627	47,366	42,863	32,593	26,521	20,332	20,078	14,486
78 x 36 x 36	758	58,728	53,702	40,711	32,579	25,701	25,397	19,043
84 x 40 x 40	913	60,000	60,000	51,818	41,707	33,087	31,419	23,636
88 x 40 x 40	958	NA	NA	58,744	47,916	37,217	35,456	27,128
96 x 44 x 46	984	NA	NA	NA	60,000	51,045	50,639	36,663

All Units in Feet

2" Flange Clearance

**with flange ring

Outside Plant All Dry Stranded Loose Tube Armored (LA) Cables Gel-Free Buffer Tube

Flange x Drum x Traverse	Reel Weight (lbs)	2-60F 5@1	62-72F 6@1	74-96F 8@1	98-120F 10@1	122-144F 12@1	146-216F 12@6@1	218-288F 15@9@1
35 x 16.5 x 18**	70	3,749	3,302	2,774	2,115	1,752	1,752	1,416
42 x 24 x 24**	109	6,365	6,181	4,686	3,859	3,203	3,203	2,280
42 x 22 x 29.75	118	8,903	7,968	6,298	5,266	3,997	3,997	3,261
48 x 22 x 32.5	176	14,224	13,027	10,704	8,695	6,369	6,369	5,300
54 x 24 x 28	370	15,868	14,803	11,514	9,540	7,246	7,246	5,383
60 x 30 x 32	433	21,280	19,637	15,543	12,822	9,706	9,706	7,752
66 x 30 x 32	506	28,649	25,652	20,932	16,857	13,258	13,258	10,279
72 x 36 x 36	627	36,198	32,593	26,521	21,628	16,947	16,947	13,050
78 x 36 x 36	758	44,704	40,711	32,579	27,141	20,824	20,824	16,475
84 x 40 x 40	913	57,164	51,818	41,707	33,424	25,671	25,671	20,655
88 x 40 x 40	958	NA	58,744	47,916	39,012	29,315	29,315	23,945
96 x 44 x 46	984	NA	NA	60,000	53,242	40,797	40,797	31,726

All Units in Feet

2" Flange Clearance

**with flange ring

Fiber Optic Packaging



Shipping Information

Outside Plant Stranded Loose Tube Armored (LA) Cables
Arid Core

Flange x Drum x Traverse	Reel Weight (lbs)	2-60F 5@1	62-72F 6@1	74-96F 8@1	98-120F 10@1	122-144F 12@1	146-216F 12@6@1	218-288F 15@9@1	290-432F 12@6@1
35 x 16.5 x 18**	70	3,249	2,774	2,061	1,699	1,365	1,635	NA	NA
42 x 24 x 24**	109	5,501	4,686	3,790	2,785	2,220	2,220	1,717	1,713
42 x 22 x 29.75	118	7,203	6,298	4,728	3,840	3,197	3,197	2,208	2,270
48 x 22 x 32.5	176	11,869	10,704	7,861	6,154	4,750	4,750	3,921	4,019
54 x 24 x 28	370	13,508	11,514	8,854	7,135	5,732	5,732	4,328	4,456
60 x 30 x 32	433	18,041	15,543	11,710	9,576	7,619	7,619	5,874	5,855
66 x 30 x 32	506	23,794	20,932	15,571	12,361	10,116	10,116	7,500	7,472
72 x 36 x 36	627	30,383	26,521	20,078	15,541	12,865	12,865	9,459	9,670
78 x 36 x 36	758	38,211	32,579	25,397	19,248	15,381	15,381	11,621	12,648
84 x 40 x 40	913	48,919	41,707	31,419	25,459	20,420	20,420	14,639	15,844
88 x 40 x 40	958	55,644	47,916	35,456	27,860	22,578	22,578	17,404	17,740
96 x 44 x 46	984	60,000	60,000	50,639	38,413	31,457	31,457	23,913	24,298

All Units in Feet

2" Flange Clearance

**with flange ring

Outside Plant Stranded Loose Tube Non-Armored (LN) Cables
Arid Core

Flange x Drum x Traverse	Reel Weight (lbs)	2-60F 5@1	62-72F 6@1	74-96F 8@1	98-120F 10@1	122-144F 12@1	146-216F 12@6@1	218-288F 15@9@1	290-432F 12@6@1
36 x 22 x 29.75**	80	3,823	3,302	2,462	1,796	1,455	1,455	NA	NA
42 x 24 x 24**	109	6,989	6,181	4,513	3,261	2,649	2,649	2,110	2,099
42 x 22 x 29.75	118	8,994	7,968	6,122	4,582	3,387	3,387	2,647	2,709
48 x 22 x 32.5	176	14,329	13,027	9,798	7,101	5,464	5,464	4,070	4,585
54 x 24 x 28	370	16,800	14,803	10,781	8,036	6,378	6,378	4,946	5,059
60 x 30 x 32	433	22,463	19,637	14,344	10,691	8,628	8,628	6,649	6,781
66 x 30 x 32	506	28,856	25,652	19,541	14,401	11,279	11,279	8,370	9,145
72 x 36 x 36	627	36,908	32,593	24,853	18,322	14,249	14,249	10,499	11,427
78 x 36 x 36	758	47,051	40,711	30,736	22,336	17,807	17,807	13,559	13,778
84 x 40 x 40	913	59,221	51,818	39,551	29,119	23,743	23,743	17,278	17,518
88 x 40 x 40	958	NA	58,744	44,069	32,995	26,066	26,066	19,256	20,545
96 x 44 x 46	984	NA	60,000	60,000	45,289	36,252	36,252	26,116	27,682

All Units in Feet

2" Flange Clearance

**with flange ring

Indoor/Outdoor Riser-Rated and Outside Plant Central Tube Cables

Flange x Drum x Traverse	Reel Weight (lbs)	RCN 2-24F	CN 2-24F	CN 26-48F	CN 50-96F	CA 2-24F	CA 26-48F	CA 50-96F
35 x 16.5 x 18*	70	4,756	5,305	3,302	2,462	4,266	3,249	2,408
42 x 24 x 24*	109	8,757	8,999	6,181	4,513	7,971	5,501	4,023
42 x 29 x 29.75	118	11,231	12,205	7,968	6,122	10,207	7,203	5,437
48 x 22 x 32.5	176	18,238	19,475	13,027	9,798	16,719	11,869	8,924
54 x 24 x 28	370	20,913	22,255	14,803	10,781	19,466	13,508	10,466
60 x 30 x 32	433	27,909	29,581	19,637	14,344	25,764	18,041	13,975
66 x 30 x 32	506	37,565	39,500	25,652	19,541	33,798	23,794	18,181
72 x 36 x 36	627	39,000	50,234	32,593	24,853	42,863	30,383	23,221
78 x 36 x 36	758	NA	61,977	39,000	30,736	53,702	38,211	28,922

*Denotes Composite Reel

All Units in Feet 2" Flange Clearance

Fiber Optic Packaging

Shipping Information

Figure 8 Armored (M LA) Cables

Flange x Drum x Traverse	Reel Weight (lbs)	MLA 2-72F 6@1	MLA 74-144F 12@1	MLA 146-216F 12@6@1	MLA 218-288F 15@9@1
35 x 16.5 x 18**	70	1,560	1,117	1,117	NA
42 x 24 x 24**	109	2,604	1,791	1,791	1,590
42 x 22 x 29.75	118	3,382	1,987	1,987	1,518
48 x 22 x 32.5	176	5,806	3,088	3,088	2,689
54 x 24 x 28	370	6,448	3,603	3,603	2,886
60 x 30 x 32	433	8,575	4,762	4,762	3,860
66 x 30 x 32	506	11,549	6,322	6,322	4,928
72 x 36 x 36	627	14,689	8,291	8,291	6,306
78 x 36 x 36	758	18,044	9,912	9,912	7,747
84 x 40 x 40	913	23,170	13,069	13,069	9,873
88 x 40 x 40	958	26,620	14,450	14,450	12,952
96 x 44 x 46	984	NA	20,419	20,419	16,261

All Units in Feet 2" Flange Clearance **with flange ring

Figure 8 Armored Non-Armored (M LN) Cables

Flange x Drum x Traverse	Reel Weight (lbs)	MLN 2-60F 5@1	MLN 2-72F 6@1	MLN 74-144F 12@1	MLN 146-216F 12@6@1	MLN 218-288F 15@9@1
35 x 16.5 x 18**	70	1,956	1,743	1,152	1,152	NA
42 x 24 x 24**	109	3,489	3,151	2,087	2,087	1,892
42 x 22 x 29.75	118	4,488	4,117	2,117	2,117	1,713
48 x 22 x 32.5	176	7,767	6,711	3,431	3,431	2,750
54 x 24 x 28	370	8,659	7,531	3,965	3,965	3,246
60 x 30 x 32	433	11,370	10,272	5,217	5,217	4,313
66 x 30 x 32	506	15,170	13,418	6,820	6,820	5,429
72 x 36 x 36	627	19,599	16,966	8,905	8,905	6,914
78 x 36 x 36	758	24,070	21,192	11,129	11,129	8,929
84 x 40 x 40	913	30,229	26,869	14,509	14,509	11,268
88 x 40 x 40	958	34,000	30,460	15,929	15,929	13,814
96 x 44 x 46	984	NA	NA	22,219	22,219	17,246

All Units in Feet 2" Flange Clearance **with flange ring

Outside Plant Drop Cables

Flange x Drum x Traverse	Reel Weight (lbs)	DA 2-12F	DF 1-6F	DN 2-12F	M MN 1-6F	M DN 2-12
22 x 12 x 12	12	NA	2,450	1,500	1,161	1,500
30 x 12 x 12	18	NA	7,117	3,954	5,273	3,954
35 x 16.5 x 18	70	8,611	14,246	7,886	10,414	7,886
42 x 24 x 25	109	14,846	24,561	14,008	18,613	14,008
42 x 22 x 29.75	118	19,238	NA	19,138	24,997	19,138
48 x 22 x 32.5	176	32,199	NA	33,540	40,000	33,540
54 x 24 x 28	370	36,328	NA	39,240	NA	39,240
60 x 30 x 32	433	40,000	NA	40,000	NA	40,000
66 x 30 x 32	506	NA	NA	NA	NA	NA
72 x 36 x 36	627	NA	NA	NA	NA	NA
78 x 36 x 36	758	NA	NA	NA	NA	NA

All Units in Feet 2" Flange Clearance

Pavement Cables

Flange x Drum x Traverse	Reel Weight (lbs)	Feet
42 x 30 x 24	125	14,000

Fiber Optic Packaging



Shipping Information

Outside Plant Double Jacketed Single Armored (L2) Cables (All-Dry)

Flange x Drum x Traverse	Reel Weight (lbs)	2-60F 5@1	62-72F 6@1	74-96F 8@1	98-120F 10@1	122-144F 12@1	146-216F 12@6@1	218-288F 15@9@1
35 x 16.5 x 18**	70	2,408	2,115	1,737	1,450	NA	NA	NA
42 x 24 x 24**	109	4,023	3,859	3,271	2,721	2,155	2,155	1,717
42 x 22 x 29.75	118	5,437	5,266	4,060	3,375	2,761	2,761	2,208
48 x 22 x 32.5	176	8,924	8,698	6,990	6,073	4,769	4,769	3,921
54 x 24 x 28	370	10,466	9,540	7,885	6,520	5,593	5,593	4,328
60 x 30 x 32	433	13,975	12,822	10,516	8,594	7,457	7,457	5,874
66 x 30 x 32	506	18,181	16,857	13,410	11,227	9,269	9,269	7,500
72 x 36 x 36	627	23,221	21,628	17,120	14,486	11,839	11,839	9,459
78 x 36 x 36	758	28,922	27,141	22,035	19,043	15,103	15,03	11,621
84 x 40 x 40	913	35,467	33,424	27,539	23,636	19,063	19,063	14,639
88 x 40 x 40	958	41,212	39,012	31,317	27,128	22,223	22,223	15,661
96 x 44 x 46	984	55,872	53,242	43,228	36,663	29,684	29,684	23,913

All Units in Feet 2" Flange Clearance *24 Fibers Per Tube **with flange ring

Outside Plant Triple Jacketed Double Armored (L3) Cables

Flange x Drum x Traverse	Reel Weight (lbs)	2-60F 5@1	62-72F 6@1	74-96F 8@1	98-120F 10@1	122-144F 12@1	146-216F 12@6@1	218-288F 15@9@1
35 x 16.5 x 18**	70	1,191	NA	NA	NA	NA	NA	NA
42 x 24 x 24**	109	2,155	2,105	1,661	1,325	1,231	1,231	NA
42 x 22 x 29.75	118	2,761	2,717	2,150	1,770	1,676	1,676	NA
48 x 22 x 32.5	176	4,769	4,164	3,443	2,875	2,748	2,748	NA
54 x 24 x 28	370	5,593	4,926	3,968	3,330	2,827	2,827	NA
60 x 30 x 32	433	7,457	6,626	5,245	4,457	3,826	3,826	3,152
66 x 30 x 32	506	9,269	8,337	7,340	5,882	5,154	5,154	4,358
72 x 36 x 36	627	11,839	10,717	9,278	7,521	6,643	6,643	5,498
78 x 36 x 36	758	15,103	13,834	11,407	9,464	8,480	8,480	6,578
84 x 40 x 40	913	19,063	17,586	14,743	12,126	10,676	10,676	8,718
88 x 40 x 40	958	22,223	19,595	16,586	12,796	12,232	12,232	10,141
96 x 44 x 46	984	29,684	27,797	22,430	19,074	17,192	17,192	13,329

All Units in Feet 2" Flange Clearance

Plenum Loose Tube Non-Armored Interlock Armored Cable

Flange x Drum x Traverse	Reel Weight (lbs)	2-60F 5@1	62-72F 6@1	74-96F 8@1	98-120F 10@1	122-144F 12@1
35 x 16.5 x 18**	70	1,405	1,191	NA	NA	NA
42 x 24 x 24**	109	2,584	2,155	2,110	1,673	1,280
42 x 22 x 29.75	118	3,324	2,761	2,647	2,098	1,725
48 x 22 x 32.5	176	5,383	4,769	4,070	3,376	2,816
54 x 24 x 28	370	6,263	5,593	4,946	3,877	3,249
60 x 30 x 32	433	8,495	7,457	6,649	5,138	4,362
66 x 30 x 32	506	10,000	9,269	8,370	6,662	5,768
72 x 36 x 36	627	14,066	10,000	10,000	8,458	7,174
78 x 36 x 36	758	17,596	15,103	13,559	10,000	8,401

All Units in Feet 2" Flange Clearance

Indoor/Outdoor Plenum-Rated Loose Tube Cables (All-Dry)

Flange x Drum x Traverse	Reel Weight (lbs)	2-60F	62-72F
42 x 22 x 29.75	118	10,988	8,994
48 x 22 x 32.5	176	17,918	14,329
54 x 24 x 28	370	19,605	16,800
60 x 30 x 32	433	26,276	22,463
66 x 30 x 32	506	35,664	28,856
72 x 36 x 36	627	45,094	36,908
78 x 36 x 36	758	56,198	47,051

* Denotes Composite Reel All Units in Feet 2" Flange Clearance

Fiber Optic Packaging



Shipping Information

Plenum-Rated Distribution Single Unit Cables

Fiber	18x12x12 FT	22x12x12 FT	30x12x12 FT	35x16.5x18 FT	42x20.5x21 FT	42x24x25 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT
2	4,090	8,991	22,563	28,000	NA	NA	NA	NA	NA	NA	NA
4	3,050	6,998	17,584	28,000	NA	NA	NA	NA	NA	NA	NA
6	2,522	5,802	14,170	26,713	NA	28,000	NA	NA	NA	NA	NA
8	2,419	5,278	12,881	24,443	NA	28,000	NA	NA	NA	NA	NA
12	1,696	3,899	9,444	18,048	28,000	28,000	NA	NA	NA	NA	NA
18	NA	NA	NA	10,069	15,879	17,289	23,123	28,000	NA	NA	NA
24	NA	NA	NA	9,097	13,942	15,669	20,392	28,000	NA	NA	NA

Plenum-Rated Distribution Multi Unit Cables

Fiber	30x12x12 FT	35x16.5x18 FT	42x20.5x21 FT	42x24x25 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT	72X36X36 FT	78X36X36 FT
18	NA	NA	7,700	8,067	10,988	17,918	19,605	26,276	28,000	NA	NA
24	NA	NA	5,616	6,181	7,968	13,027	14,803	19,637	25,652	28,000	NA
36	NA	NA	4,481	4,772	6,385	10,820	12,337	16,589	21,158	26,779	28,000
48	NA	NA	3,780	4,023	5,437	8,924	10,466	13,975	18,181	23,227	28,000
60	NA	NA	2,858	3,193	3,982	6,878	7,926	10,562	13,478	16,872	20,721
72	NA	NA	2,378	2,657	3,313	5,488	6,408	8,461	11,067	14,307	17,888
96	NA	NA	1,668	1,717	2,208	3,921	4,328	5,874	7,500	9,459	11,621
144	NA	NA	1,405	1,612	2,104	3,387	3,757	4,998	6,483	8,484	10,545

Riser-Rated Distribution Single Unit Cables

Fiber	18x12x12 FT	22x12x12 FT	30x12x12 FT	35x16.5x18 FT	42x20.5x21 FT	42x24x25 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT
2	3,553	8,168	20,028	28,000	NA	NA	NA	NA	NA	NA	NA
4	2,522	5,802	14,170	26,713	NA	28,000	NA	NA	NA	NA	NA
6	2,419	5,278	12,881	24,443	NA	28,000	NA	NA	NA	NA	NA
8	1,976	4,287	10,420	19,855	28,000	28,000	NA	NA	NA	NA	NA
12	1,640	3,525	8,866	16,947	27,859	28,000	NA	NA	NA	NA	NA
18	NA	NA	NA	10,820	16,918	18,657	24,907	28,000	NA	NA	NA
24	NA	NA	NA	9,097	13,890	15,669	20,392	28,000	NA	NA	NA

Riser-Rated Distribution Multi Unit Cables

Fiber	30x12x12 FT	35x16.5x18 FT	42x20.5x21 FT	42x24x25 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT	72X36X36 FT	78X36X36 FT
18	NA	NA	5,610	6,273	8,058	13,136	15,714	20,784	26,930	28,000	NA
24	NA	NA	4,396	4,600	6,211	9,912	11,586	15,357	19,768	25,111	28,000
36	NA	NA	3,970	4,531	5,522	9,036	10,625	14,161	18,409	23,479	28,000
48	NA	NA	3,303	3,790	4,728	7,861	8,854	11,710	15,571	20,078	25,397
60	NA	NA	2,517	2,785	3,840	6,154	7,135	9,576	12,361	15,541	19,248
72	NA	NA	2,063	2,215	3,186	4,849	5,707	7,591	10,072	12,815	16,187
96	NA	NA	1,608	1,661	2,150	3,443	3,968	5,245	7,340	9,278	11,407
144	NA	NA	1,300	1,327	1,713	2,883	3,341	4,469	5,902	7,327	9,224

Reel Weights (lbs.)

18x12x12	22x12x12	30x12x12	35x16.5x18	42x24x24	42x22x29.75	48x22x32.5	54x24x28	60x30x32	66x30x32	72x36x36	78x36x36	84x40x40	88x40x40
8.5	12	18	70	109	118	176	370	433	506	627	758	913	958

Fiber Optic Packaging



Shipping Information

LSZH Distribution Single Unit Cables

Fiber	18x12x12 FT	22x12x12 FT	30x12x12 FT	35x16.5x18 FT	42x20.5x21 FT	42x24x25 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT	72x36x36 FT
2	4,090	8,991	22,563	28,000	NA	NA	NA	NA	NA	NA	NA	NA
4	2,419	5,278	12,881	24,443	NA	28,000	NA	NA	NA	NA	NA	NA
6	1,976	4,287	10,420	19,855	28,000	28,000	NA	NA	NA	NA	NA	NA
8	1,583	3,418	8,294	15,862	25,520	27,646	28,000	NA	NA	NA	NA	NA
12	1,228	2,626	6,326	12,375	20,194	21,514	28,000	NA	NA	NA	NA	NA
18	NA	NA	NA	10,069	15,863	17,289	23,123	28,000	NA	NA	NA	NA
24	NA	NA	NA	8,393	12,977	14,595	18,966	28,000	NA	NA	NA	NA

LSZH Distribution Multi Unit Cables

Fiber	30x12x12 FT	35x16.5x18 FT	42x20.5x21 FT	42x24x25 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT	72x36x36 FT	78x36x36 FT
18	NA	NA	3,469	3,859	5,266	8,695	9,540	12,822	16,857	21,628	27,141
24	NA	NA	2,942	3,271	4,060	6,990	7,885	10,516	13,410	17,120	22,035
36	NA	NA	2,444	3,125	3,919	6,262	7,282	9,536	12,302	15,784	20,524
48	NA	NA	2,066	2,220	3,197	4,750	5,732	7,619	10,116	12,865	15,381
60	NA	NA	1,718	2,043	2,655	4,085	4,547	5,963	8,176	10,536	12,816
72	NA	NA	1,402	1,669	2,162	3,466	3,864	5,122	6,639	8,431	11,188

Plenum-Rated Armored Distribution Single Unit Cables

Fiber	35x16.5x18 FT	42x24x25 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT	72x36x36 FT	78x36x36 FT
2-12	3,249	5,501	7,203	11,869	13,508	18,041	23,794	28,000	NA
18-24	1,752	3,203	3,997	6,369	7,246	9,706	13,258	16,947	20,824

Plenum-Rated Armored Distribution Multi Unit Cables

Fiber	35x16.5x18 FT	42x24x25 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT	72x36x36 FT	78x36x36 FT
18	NA	2,099	2,709	4,585	5,059	6,781	9,145	11,427	13,778
24	NA	1,773	2,264	4,004	4,439	5,836	7,443	9,638	13,778
36	NA	2,110	2,647	4,070	4,946	6,649	8,370	10,499	13,559
48	NA	1,717	2,208	3,921	4,328	5,874	7,500	9,459	12,600
60	NA	1,322	1,766	2,958	3,319	4,444	5,863	7,499	9,433
72	NA	NA	NA	NA	2,527	3,314	4,560	5,915	7,656
96	NA	NA	NA	NA	NA	2,706	3,445	4,386	5,898
144	NA	NA	NA	NA	NA	2,626	3,348	4,276	5,248

Reel Weights (lbs.)

18x12x12	22x12x12	30x12x12	35x16.5x18	42x24x24	42x22x29.75	48x22x32.5	54x24x28	60x30x32	66x30x32	72x36x36	78x36x36	84x40x40	88x40x40
8.5	12	18	70	109	118	176	370	433	506	627	758	913	958

Fiber Optic Packaging



Shipping Information

Riser-Rated Armored Distribution Single Unit Cables

Fiber	35x16.5x18 FT	42x24x25 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT	72X36X36 FT	78X36X36 FT
2-12	3,249	5,501	7,203	11,869	13,508	18,041	23,794	28,000	NA
18-24	2,115	3,859	5,266	8,695	9,540	12,822	16,857	21,628	27,141

Riser-Rated Armored Distribution Multi Unit Cables

Fiber	35x16.5x18 FT	42x24x25 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT	72X36X36 FT	78X36X36 FT
18	1,191	2,155	2,761	4,769	5,593	7,457	9,269	11,839	15,103
24	NA	1,717	2,208	3,921	4,328	5,874	7,500	9,459	11,621
36	NA	1,717	2,208	3,921	4,328	5,874	7,500	9,459	11,621
48	NA	1,717	2,208	3,921	4,328	5,874	7,500	9,459	11,621
60	NA	1,280	1,725	2,816	3,249	4,362	5,768	7,174	8,401
72	NA	NA	NA	2,429	2,527	3,314	4,560	5,915	7,656
96	NA	NA	NA	NA	NA	2,706	3,445	4,386	5,898
144	NA	NA	NA	NA	NA	2,215	3,249	4,162	5,115

LSZH Armored Distribution Single Unit Cables

Fiber	35x16.5x18 FT	42x24x25 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT	72X36X36 FT	78X36X36 FT
2-8	3,249	5,501	7,203	11,869	13,508	18,041	23,794	28,000	NA
12	2,529	4,600	6,211	9,912	11,586	15,357	19,768	25,111	28,000
18-24	2,115	3,859	5,266	8,695	9,540	12,822	16,857	21,628	27,141

LSZH Armored Distribution Multi Unit Cables

Fiber	42x24x25 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT	72X36X36 FT	78X36X36 FT
18	1,673	2,098	3,376	3,877	5,138	6,662	8,458	10,508
24	1,322	1,766	2,958	3,319	4,444	5,863	7,499	9,433
36	1,280	1,725	2,816	3,249	4,362	5,768	7,174	8,401
48	1,236	1,621	2,429	2,844	3,713	5,007	6,477	8,274
60	NA	NA	NA	NA	3,152	4,358	5,498	6,578
72	NA	NA	NA	NA	2,706	3,445	4,386	5,898

Reel Weights (lbs.)

18x12x12	22x12x12	30x12x12	35x16.5x18	42x24x24	42x22x29.75	48x22x32.5	54x24x28	60x30x32	66x30x32	72x36x36	78x36x36	84x40x40	88x40x40
8.5	12	18	70	109	118	176	370	433	506	627	758	913	958

Fiber Optic Packaging



Shipping Information

Riser, Plenum and LSZH* Simplex Cables

Fiber	Size	18x12x12 FT	22x12x12 FT	30x12x12 FT
1	1.6	19,602	28,000	NA
1	2.0	14,364	28,000	NA
1	2.5	9,363	20,848	28,000
1	2.9	6,897	15,824	28,000

* LSZH is only for the 1.6, 2.5 and 2.9 cables.

Riser, Plenum and LSZH* Zipcord Cables

Fiber	Size	30x12x12 FT	35x16.5x18 FT
2	1.6	28,000	NA
2	2.0	28,000	NA
2	2.5	21,983	28,000
2	2.9	15,965	28,000

* LSZH is only for the 1.6, 2.5 and 2.9 cables.

Riser, Plenum and LSZH Interconnect Cables

Fiber	Size	18x12x12 FT	22x12x12 FT	30x12x12 FT
2	2.9	6,897	15,824	28,000

All reels calculated using 2" flange clearance

Riser-Rated Loose Tube Non-Armored Cables (All-Dry)

Flange x Drum x Traverse	Reel Weight (lbs)	2-60F 5@1	62-72F 6@1	74-96F 8@1	98-120F 10@1	122-144F 12@1	146-216F 12@6@1	218-288F 15@9@1
35 x 16.8 x 18**	70	3,302	2,829	2,125	1,752	1,416	NA	NA
42 x 24 x 24**	109	6,181	5,321	3,873	3,203	2,280	2,220	1,721
42 x 22 x 29.75	118	7,968	7,025	4,709	3,997	3,261	3,197	2,214
48 x 22 x 32.5	176	13,024	10,933	7,974	6,369	5,300	4,750	3,532
54 x 24 x 28	370	14,803	12,497	9,005	7,246	5,683	5,732	4,345
60 x 30 x 32	433	19,637	16,776	11,888	9,706	7,752	7,619	5,725
66 x 30 x 32	506	25,652	22,351	15,795	13,258	10,279	10,116	7,313
72 x 36 x 36	627	32,593	28,221	20,332	16,947	13,050	12,865	9,491
78 x 36 x 36	758	40,711	34,446	25,701	20,824	16,475	15,381	11,664

All Units in Feet 2" Flange Clearance **with flange ring

Riser Loose Tube Non-Armored Interlock Armored Cable

Flange x Drum x Traverse	Reel Weight (lbs)	2-60F 5@1	62-72F 6@1	74-96F 8@1	98-120F 10@1	122-144F 12@1	146-216F 12@6@1	218-288F 15@9@1
35 x 16.5 x 18**	70	1,191	NA	NA	NA	NA	NA	NA
42 x 24 x 24**	109	2,155	2,110	1,673	1,322	1,236	1,191	NA
42 x 22 x 29.75	118	2,761	2,647	2,098	1,766	1,621	NA	NA
48 x 22 x 32.5	176	4,769	4,070	3,376	2,958	2,429	NA	NA
54 x 24 x 28	370	5,593	4,946	3,877	3,319	2,844	2,772	2,319
60 x 30 x 32	433	7,457	6,649	5,138	4,444	3,713	3,627	3,067
66 x 30 x 32	506	9,269	8,370	6,662	5,863	5,007	4,461	3,839
72 x 36 x 36	627	10,000	10,000	8,458	7,499	6,477	5,804	4,871
78 x 36 x 36	758	15,103	13,559	10,000	9,433	8,162	7,205	6,179

All Units in Feet 2" Flange Clearance

Riser-Rated Heavy Duty Cables

Flange x Drum x Traverse	Reel Weight (lbs)	2-60F 5@1	62-72F 6@1	74-96F 8@1	98-120F 10@1	122-144F 12@1	146-216F 12@6@1	218-288F 15@9@1
42 x 22 x 29.75	118	6,298	5,522	4,582	3,313	2,700	2,700	2,162
48 x 22 x 32.5	176	10,704	9,036	7,101	5,488	4,687	4,687	3,466
54 x 24 x 28	370	11,514	10,625	8,036	6,408	5,038	5,038	3,865
60 x 30 x 32	433	15,543	14,161	10,691	8,461	6,757	6,757	5,122
66 x 30 x 32	506	20,932	18,409	14,401	11,067	9,107	9,107	6,639
72 x 36 x 36	627	26,521	23,479	18,322	14,307	11,656	11,656	8,431
78 x 36 x 36	758	32,579	29,225	22,336	17,888	14,049	14,049	11,188

All Units in Feet 2" Flange Clearance

Fiber Optic Packaging



Shipping Information

Plenum-Rated Indoor/Outdoor Distribution Single Unit Cables

Fiber	18x12x12 FT	22x12x12 FT	30x12x12 FT	35x16.5x18 FT	42x20.5x21 FT	42x24x25 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT
2	3,050	6,998	10,000	NA	NA	NA	NA	NA	NA	NA	NA
4	2,522	5,802	10,000	NA	NA	NA	NA	NA	NA	NA	NA
6	2,073	4,772	10,000	NA	NA	NA	NA	NA	NA	NA	NA
8	1,696	3,899	9,444	10,000	NA	NA	NA	NA	NA	NA	NA
12	NA	NA	NA	10,000	NA	NA	NA	NA	NA	NA	NA
18	NA	NA	NA	10,000	NA	NA	NA	NA	NA	NA	NA
24	NA	NA	NA	10,000	NA	NA	NA	NA	NA	NA	NA

Plenum-Rated Indoor/Outdoor Distribution Multi Unit Cables

Fiber	30x12x12 FT	35x16.5x18 FT	42x20.5x21 FT	42x24x25 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT	72X36X36 FT	78X36X36 FT
36	NA	1,737	3,319	3,271	4,060	6,990	7,885	10,000	NA	NA	NA
48	NA	1,455	2,519	2,649	3,387	5,464	6,378	8,628	10,000	NA	NA
60	NA	NA	2,004	2,105	2,717	4,164	4,926	6,626	8,337	10,000	NA
72	NA	NA	1,663	1,661	2,150	3,443	3,968	5,245	7,340	9,278	10,000
96	NA	NA	1,066	1,236	NA	NA	2,844	3,713	5,007	6,477	8,274
144	NA	NA	1,026	NA	NA	NA	2,378	3,137	4,333	5,659	6,767

Plenum-Rated Indoor/Outdoor Distribution Armored Single Unit Cables

Fiber	18x12x12 FT	22x12x12 FT	30x12x12 FT	35x16.5x18 FT	42x20.5x21 FT	42x24x25 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT
2-8	NA	NA	NA	3,249	4,479	5,501	7,203	10,000	NA	NA	NA
12	NA	NA	NA	2,529	3,877	4,600	6,211	9,912	10,000	NA	NA
18	NA	NA	NA	2,529	2,938	4,600	6,211	9,912	10,000	NA	NA
24	NA	NA	NA	2,115	2,519	3,859	5,266	8,695	9,540	10,000	NA

Plenum-Rated Indoor/Outdoor Distribution Armored Multi Unit Cables

Fiber	30x12x12 FT	35x16.5x18 FT	42x20.5x21 FT	42x24x25 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT	72X36X36 FT	78X36X36 FT
36	NA	NA	1,347	1,322	1,766	2,958	3,319	4,444	5,863	7,499	9,433
48	NA	NA	1,297	1,280	1,725	2,816	3,249	4,362	5,768	7,174	8,401
60	NA	NA	1,079	1,191	NA	NA	2,772	3,627	4,461	5,804	7,205
72	NA	NA	NA	NA	NA	NA	NA	2,706	3,445	4,386	5,898
96-144	NA	NA	NA	NA	NA	NA	NA	NA	2,396	2,986	3,801

Residential Cabling Packaging & Shipping



Color Options, Packaging, Purchasing and Shipping Terms and Conditions

- Minimum order of \$1,000.
- Shipments of \$5,000 or more are f.o.b. factory, freight allowed if destination is within the continental United States.
- Shipments of less than \$5,000 are f.o.b. factory.
- Standard lengths are 1,000 feet (304.8 meters) plus or minus 10% for reels and CommPak boxes. Standard length per coil varies by product.
- Not more than 5% of each shipment shall be other than standard lengths, with no lengths shorter than 500 feet (152 meters) on 1,000 foot (304.8 meters) reels. Orders for custom print may receive lengths down to 300 feet.
- Method of shipment at discretion of shipper.
- Inspection and final acceptance shall be made at factory prior to shipment. On approved credit, net 30 days from date of invoice; 1.5% finance charge equivalent to 18% per annum will be added after due date. All orders subject to acceptance at factory and will be billed at price in effect at time of shipment. Prices, discounts, terms conditions and specifications are subject to change without notice.

Catalog No.	Colors									Packaging			Lengths		Weight
	Black	White	Cream	Blue	Grey	Yellow	Orange	Purple	Red	ComPak	RIB	Reel	500ft.	1000ft.	
UH58100							x					x	x	x	55
UH58120							x					x	x	x	59
UH58130F	x											x	x	x	60
UH58140							x					x	x	x	75
UH58180							x					x	x	x	81
UH58320							x					x	x	x	137
UH58360							x					x	x	x	152
UH58380							x					x	x	x	163
5716	x	x			x							x		x	26
5729	x	x			x							x		x	32
5730	x	x			x							x		x	34
5743	x	x								x		x		x	36
5786	x	x			x							x		x	72
5783	x	x										x		x	30
5784	x	x										x		x	56
5781	x	x								x		x		x	36
5782	x	x										x		x	67
5731	x	x										x		x	45
5788	x	x										x		x	81
5916R	x	x										x		x	78
UH58760		x		x	x	x			x	x	x	x		x	27
UH58770		x		x	x	x			x			x		x	55
UH58820						x		x				x		x	30
UH58821						x		x				x		x	30
UH58840						x		x				x		x	57
UH58841						x		x				x		x	57
UH58860						x		x				x		x	37
UH58880						x		x				x		x	82
UH58890						x		x				x		x	83
UH58891						x		x				x		x	103
UH58892							x					x		x	72
R-002-IC-6F-FSDOR							x					x		x	9

Uniprise

Copper

Fiber

Coax

Multi-Conductor

Conduit

Packaging

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Coaxial Packaging & Shipping

Reel Size and Shipping Weights

Packaging

Reel lengths may vary +/-10%. Reels and boxes are palletized for shipment. Shipments are subject to full pallet quantities or full pallet layers as a minimum.

Method of Shipment

Method of shipment at discretion of shipper, unless specified in order.

Inspection

Final inspection shall be made at factory prior to shipment.

Terms and Conditions

On approved credit, net 30 days from date of invoice; 1.5% finance charge equivalent to 18% per annum will be added after due date. All orders subject to acceptance at factory and will be billed at price in effect at time of shipment. Prices, discounts, terms, conditions, and specifications are subject to change without notice.



Coaxial Packaging & Shipping



Shipping Weights

CommScope Catalog No.	Spool Length	Wt/Kft
0359V	1000	66
0467	1000	81
0653K	1000	32
0653V	1000	32
2020K	1000	19
2020V	1000	18
2022V	1000	25
2035	1000	15
203505	1000	14
2041K	1000	44
2045V	1000	41
2100V	1000	27
2104V	1000	29
2125K	1000	48
2210V	1000	53
2220V	1000	58
2227K	1000	30
2227V	1000	29
2229V	1000	35
2249V	1000	24
2250V	1000	40
2275K	1000	27
2275V	1000	26
2276V	1000	28
2279V	1000	47
2280K	1000	136
2282K	1000	113
2285K	1000	58
2287K	1000	63
2291K	1000	64
2312K	2400	127
2426K	1000	110
2427K	1000	113
3104	1000	27
3130	1000	33
3135	1000	36
3136	1000	24
3139	1000	31
3226	1000	102
3227	1000	102
3228	1000	112
3229	1000	112
3247	1000	120
3249	1000	116
3250	1000	115
5540	1000	29

CommScope Catalog No.	Spool Length	Wt/Kft
5555	1000	41
5560	1000	42
5563	1000	42
5565	1000	34
5571	1000	23
5572	1000	23
5572R	1000	23
5573	1000	24
5574	1000	20
5575	1000	28
5715	1000	34
5722	1000	38
5727	1000	29
5729	1000	32
5730	1000	34
5730V	1000	29
5731	1000	45
5732	1000	38
5741	1000	38
5743	1000	31
5750	1000	36
5765	1000	45
5772	1000	38
5773	1000	48
5774	1000	61
5781	1000	40
5782	1000	85
5786	1000	58
5787	1000	58
5796	1000	46
5901	1000	63
5906	1000	87
5912R	1000	56
5915	1000	57
5916	1000	78
5916R	1000	78
5918	1000	155
5940	1000	59
5950	1000	62
6609	1000	42
7501	1000	76
7505	1000	62
7530	1000	56
753603	1000	83
753604	1000	101
753605	1000	135

CommScope Catalog No.	Spool Length	Wt/Kft
7538	1000	17
7713	1000	122
7725	1000	40
7726	1000	44
7815	1000	140
7901	1000	81
8236	1000	130

Uniprise

Copper

Fiber

Coax

Multi-Conductor

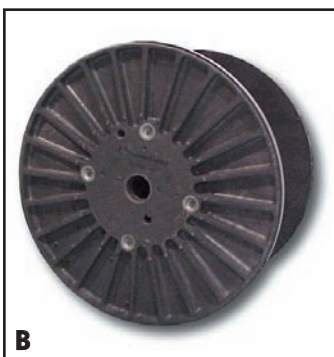
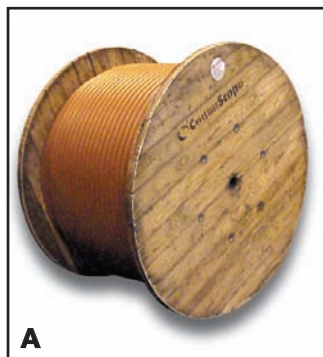
Conduit

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Conduit Packaging & Shipping

Shipping Information



ConQuest products can be packaged and shipped on either wooden reels (A), ReelSmart® Composite Reels (B), or lightweight steel reels (C).

Drop conduit products can be packaged on "reel-less" coils (D), making them light weight and easier to handle.

ConQuest Reel Dimensions and Weight Chart (Standards in Bold)

Lengths*	13mm	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	3"	4"
500									102x74x43 217 lbs.
1,000	24x12x18 16 lbs.	35x16 1/2x18 60 lbs.	42x24x24 130 lbs.	50 x 24 x 24 182 lbs.	54 x 28 x 43 106 lbs.			102x64x43 217 lbs.	
2,500							90x43x43 195 lbs.		
3,000			54 x 28 x 43 106 lbs.	63x28x43 121 lbs.	68x43x43 132 lbs.	80x43x43 174 lbs.			
4,000							102 x 43 x 43 217 lbs.		
5,000			63 x 28 x 43 121 lbs.	68 x 28 x 43 121 lbs.	80 x 28 x 43 174 lbs.	102 x 43 x 43 217 lbs.			

(Flange x Drum x Traverse)

*Longer lengths may be available upon request.

Reel Stenciling

All wood reel heads are to be stenciled **"COMMScope"** and **"MADE IN THE USA"** (in black letters). All reel heads will be stenciled to identify reel size and date of reel manufacture, in 3/4" - 1" letters located below the arbor hole with diagram R-2 red roller system stencil ink or approved equivalent. All flanges (except 35" or smaller) cut with a start hole, must be stenciled with the warning **"THIS SIDE UP"** in 1 1/2" to 2" letters.

Reel Recycling

CommScope is equipped to serve cable companies like yours with Reel Recycling Centers on both sides of the country. Whether your load consists of reusable CommScope knocked down or assembled reels, wooden flanges, metal reels or a truckload of ReelSmart® composite reels, our Reel Recycling Coordinator can customize a program to fit your needs. Call the CommScope Reel Recycling Coordinator at 1.800.982.1708 for assistance in establishing a customized recycling program.

Conduit Packaging & Shipping



Reel Size and Shipping Weights

Palletizing

24" reels are palletized (standard 8 reels per pallet) and stretched wrapped. For substandard palletizing: 4 reels per pallet, 2 reels per pallet, or 1 reel per pallet, shall be used.

End Preparation

The cable ends are secured to the conduit by a nylon cord, or CommScope approved equivalent, to ensure that the cable does not draw back into the conduit prior to installation. Each end shall be tightly sealed by a conduit end cap to prevent contamination ingress. For wooden reels, the bottom end shall be secured into the start hole by a chess board "stayback" or a CommScope approved equivalent. The top end of the conduit shall be secured to the flange by a metal pipe band or sufficient cable ties.

Reel Identification

Each reel tag for CIC (as shown below) shall provide the following information and instructions:

		3350008/24	
125 CommScope Way STATESVILLE, NC (USA) 28677-1876		001-001-001	
33-500-08 			
125T135P3500JCASS (5302203)PR01746	Y-12	2440 FT 743.7 MT	
		CONQUEST™ 	
4910881		09221 GX 63	
63 X 30 X 40 STEEL REEL (CIC)			
G2			

- CommScope's Shipping Address
- CommScope's Product Code
- Length of the Cable inside the Conduit
- Product Description
- Tracer Color with Reel Number and Bar Code Testing
- Spectrum, Reel Size, and Manufacturing Date
- Special Comments (if needed)

Typical reel tag for CIC with P3 500 JCASS Product.

G L O S S A R Y / I N D E X

Glossary

μm See Micron (μm).

10BASE-FL An implementation of the Institute of Electrical and Electronic Engineers (IEEE) Ethernet standard on 62.5/125-μm fiber-optic cable, a baseband medium of 10 Mb/s.

10BASE-T An implementation of the Institute of Electrical and Electronic Engineers (IEEE) Ethernet standard on 24-AWG, unshielded, twisted-pair wiring, a baseband medium of 10 Mb/s.

10BASE2 An implementation of the Institute of Electrical and Electronic Engineers (IEEE) Ethernet standard on thin coaxial cable, a baseband medium of 10 Mb/s. The maximum segment length is just under 200 m (656 ft).

10BASE5 An implementation of the Institute of Electrical and Electronic Engineers (IEEE) Ethernet standard on twinaxial cable, a baseband medium of 10 Mb/s. The maximum segment length is 500 m (1,640 ft).

100BASE-T Official project name for 100 Mb/s Fast Ethernet.

100BASE-T4 100 Mb/s Fast Ethernet using 4-pair Category 3 cable.

100BASE-TX 100 Mb/s Fast Ethernet using 2-pair Category 5 cable.

100VG-ANY LAN 100 Mb/s LAN using Demand Priority Protocol originally developed by Hewlett Packard and AT&T for Category 3 cable.

1000BASE-T A specification for Gigabit Ethernet over copper wire (IEEE Standard 802.3ab). The standard defines 1 Gb/s data transfer over distances of up to 100 meters using four pairs of Category 5e balanced copper cabling and a 5-level coding scheme.

1000BASE-LX A specification for Gigabit Ethernet over fiber-optic cable (IEEE Standard 802.3 z) at 1300 nm wavelength.

1000BASE-SX A specification for Gigabit Ethernet over fiber-optic cable (IEEE Standard 802.3 z) at 850 nm wavelength.

1000BASE-TX A specification for Gigabit Ethernet over copper wire (TIA/EIA). The standard defines 1 Gb/s data transfer over distances of up to 100 meters using four pairs of Category 6 balanced copper cabling.

10GBASE-ER Serial 10 Gb/s Ethernet operating on single-mode fiber with longwave lasers (1550 nm). Intended for distances up to 40 Km.

10GBASE-EW WAN-capable serial 10 Gb/s Ethernet operating on single-mode fiber with longwave lasers (1550 nm), including a simplified SONET/SDH framer.

10GBASE-LR Serial 10 Gb/s Ethernet operating on single-mode fiber with longwave lasers (1300 nm). Intended for distances up to 10 Km.

10GBASE-LW WAN-capable serial 10 Gb/s Ethernet operating on single-mode fiber with longwave lasers (1300 nm), including a simplified SONET/SDH framer.

10GBASE-LX4 Coarse Wave Division Multiplexing (CWDM) 10 Gb/s Ethernet operating on multimode or single-mode fiber with long-wave lasers (1300 nm). This version is intended to support 10 Gb/s on the installed base of multimode fiber, but the complexity of CDWM and 1300 nm transmission places a significant premium on this optical implementation. It requires mode-conditioning patch cords for operation on multimode fiber.

10GBASE-SR Serial 10 Gb/s Ethernet operating on multimode fiber with shortwave lasers (850 nm). This is the lowest cost optical implementation of 10 Gigabit Ethernet, and supports up to 300 m on Laser Optimized Multimode Fiber.

10GBASE-SW WAN-capable Serial 10 Gb/s Ethernet operating on multimode fiber with sortwave lasers (850 nm), including a simplified SONET/SDH framer.

10 Gigabit Ethernet As specified in IEEE 802.3af, a range of Ethernet implementations supporting 10 Gb/s for LAN and WAN implementations.

802.3 Defined by the Institute of Electrical and Electronic Engineers (IEEE), these standards govern the use of the Carrier Sense Multiple Access/Collision Detection (CSMA/CD) network access method used by Ethernet networks.

802.5 Defined by the Institute of Electrical and Electronics Engineers (IEEE), these standards govern the use of the token ring network access method.

802.11 Defined by the Institute of Electrical and Electronics Engineers (IEEE), these standards govern the use of wireless LANs.

A See Ampere (A).

Abrasion Resistance Ability of a wire, cable or material to resist surface wear.

Accelerated Aging A test in which voltage, temperature, etc., are increased above normal operation values to obtain observable deterioration in a relatively short period of time. The plotted results give expected service life under normal conditions.

Access Provider Operator of facility used to convey telecommunications signals to and from a customer premises.

AD Cable In residential applications, the cable from the distribution device in a customer's premises to the point of demarcation.

Glossary



Adapter A device that (1) enables different sizes or types of plugs to mate with one another or to fit into an information outlet, (2) provides for the rearrangement of leads, (3) allows large cables with numerous wires to fan out into smaller groups of wires, or (4) makes interconnections between cables.

Ad Hoc Cabling Cabling scheme where different types of cabling components from different vendors are linked together to form a cabling system.

Administration Point A location at which communications circuits are administered; that is, rearranged or rerouted by means of cross connections, interconnection, or information outlets.

Administration Subsystem The part of a premises distribution system that includes the distribution hardware components where you can add or rearrange circuits. These components include cross-connects, interconnects, telecommunication outlets, and their associated patch cords and plugs. Also called "administration points." See also Cross-Connect and Telecommunications Outlet (TO).

Admittance The measure of the ease with which an alternating current flows in a circuit. The reciprocal of impedance.

Aerial Cable A cable suspended in the air on poles or other overhead structure.

Air-Dielectric Coaxial Cable One in which air is the essential dielectric material. A spirally wound synthetic filament or spacer may be used to center the conductor.

Alloy A metal formed by combining two or more different metals to obtain desirable properties.

Alternation Current Electric current that continually reverses its direction. It is expressed in cycles per second (Hertz or Hz).

Ambient Temperature The temperature of a medium (gas or liquid) surrounding an object.

American National Standards Institute (ANSI) Organization responsible for the definition and maintenance of the Fiber Distributed Data Interface (FDDI) standard. ANSI is the principal group in the United States for defining standards. ANSI represents the U.S. in the International Standards Organization (ISO).

American Wire Gauge (AWG) The standard gauge for measuring the diameter of copper, aluminum and other conductors.

Ampere (A) A standard unit of current. One ampere of current is produced by one coulomb of charge passing a point in one second.

Analog Signal A signal that represents information in a continuously variable and directly measurable physical

quantity, such as voltage. Shaped like a wave, analog signals, such as those transmitted over a telephone channel, vary in both frequency and amplitude proportionate to the voice or other signals initiating them. See also Digital Signal.

Analog Transmission A method of signal transmission in which the shape of the signal is a continuously variable and directly measurable physical quantity such as voltage.

Anneal Relief of mechanical stress through heat and gradual cooling. Annealing copper renders it less brittle.

ANSI/TIA/EIA 568A Commercial Building Telecommunications Standard. It gives guidelines on implementing structured cabling within a building. It also defines the minimum mechanical and transmission performance criteria for U/UTP, STP, ScTP, coax, and fiber optic cabling.

Application A system, with its associated transmission method which is supported by telecommunications cabling.

Application Layer The uppermost layer (layer 7) of the open systems interconnection (OSI) model. This layer is concerned with support to the user application and is responsible for managing the communication between applications, e.g. Email, File transfer, etc.

Armor A braid or wrapping of metal, usually steel, used for mechanical protection. Generally placed over the outer sheath.

ASCII The American Standard Code for Information Interchange. A widely-used 7 or 8-bit binary code used to represent alphabetic and numeric characters in computer understandable form.

ASTM Abbreviation for the American Society for Testing and Materials, a nonprofit industry-wide organization which publishes standards, methods of test, recommended practices, definitions and other related material.

Asynchronous Two or more signals sourced from independent clocks, therefore having different frequency and phase relations.

Asynchronous Data Transfer A method of data transfer in which each alphabetic or numeric character (represented by 7 or 8 bits) is preceded by 'start' and 'stop' bits to delineate the 7/8 bit pattern from the ideal pattern which otherwise occupies the (digital) transmission medium.

Asynchronous Transfer Mode (ATM) An information transmission technology that dynamically allocates bandwidth through a switching network. ATM can deliver voice, video and data without the latency problems normally associated with Ethernet.

Asynchronous Transmission A data transmission technique controlled by start and stop bits at each end of a character and characterized by an undetermined time interval between characters.

Glossary

ATM See Asynchronous Transfer Mode.

Attenuation The effect of signal reduction, experienced with accumulating line length or distance of radio transmission.

Attenuation to Crosstalk Ratio (ACR) Calculated as the crosstalk value (dB) minus the attenuation value (dB). Typically, ACR may be given for a cable, link or channel and is a key indicator of performance for U/UTP systems.

Audio Frequency The range of frequencies audible to the human ear. Usually 20-20,000 HZ.

Auxiliary Disconnect Outlet (ADO) Allows a disconnect point from the service provider. May be co-located at the NID or Distribution Device.

AWM Designation for Appliance Wiring Material.

AWG See American Wire Gauge (AWG).

Backbone(s) The part of a premises distribution system that includes a main cable route and facilities for supporting the cable from the equipment room to the upper floors, or along the same floor to the wiring closets.

Backbone/Riser Closet See Telecommunications Closet/Room.

Backbone/Riser Subsystem See Riser Backbone Subsystem.

Balanced Circuit A circuit where equal and opposite signals are generated and sent on to two conductors. The better the balance of a circuit, the lesser is its emissions and the greater is its noise immunity (hence the better is its EMC performance).

Balanced Transmission Refers to the transmission of equal but opposite voltages across each conductor of a pair. If each conductor is identical, with respect to each other and the environment, then the pair is said to be perfectly balanced and the transmission will be immune to ElectroMagnetic Interference (EMI).

Balanced Twisted Pair Cable A cable consisting of one or more metallic symmetrical cable elements (twisted pairs or quads).

Balun A device for matching impedance between a balanced to unbalanced line, usually twisted-pair and coaxial cable.

Bandwidth The range of frequencies that can be used for transmitting information on a channel. It indicates the transmission-carrying capacity of a channel. Thus, the larger the bandwidth, the greater the amount of information that can pass through the circuit. Measured in Hertz or b/s or MHz-km (for fiber).

Baseband A network in which the entire bandwidth of the transmission medium is used as a single digital signal. Unlike broadband, no modulation techniques are used.

Basic Rate Interface (BRI) The simplest form of network access available on the ISDN (integrated services digital network). The BRI comprises of 2B + D channels for carriage of signaling and user information.

Bend Radius The radius of curvature that fiber or copper can bend without breaking or causing excessive loss.

Bit Error Rate (BER) A measure of quality of a digital transmission line, either quoted as a percentage, or more usually as a ratio, typically 1 error in 10E8 or 10E9 bits carried. The lower the number of errors, the better the quality of the line.

BNC Connector The connector type used on many types of coaxial data communication equipment.

Bonding The connecting together of all building and equipment electrical grounds to eliminate differences in electrical ground potentials.

Braid A fibrous or metallic group of filaments interwoven in cylindrical form to form a covering over one or more wires.

Braid Angle The smaller of the two angles formed by the shielding strand and the axis of the cable being shielded.

Braid Carrier A spool or bobbin on a braider which holds one group of strands or filaments consisting of a specific number of ends. The carrier revolves during braiding operations.

Braid Ends The number of strands used to make up one carrier. The strands are wound side by side on the carrier bobbin and lie parallel in the finished braid.

Breakdown Voltage The voltage at which the insulation between two conductors breaks down.

BRI See Basic Rate Interface (BRI).

Bridge(s) A device used to link two subnetworks using the same communications method and sometimes the same kind of transmission medium.

Broadband A network in which the bandwidth can be shared by multiple simultaneous signals that are encoded with radio frequency modulations.

Building Backbone Cable A cable that connects the building distributor to a floor distributor. Building backbone cables may also connect floor distributors in the same building.

Glossary



Building Distributor A distributor in which the building backbone cable(s) terminate(s) and at which connections to the campus backbone cable(s) may be made.

Building Entrance Facility A facility that provides all necessary mechanical and electrical services, that complies with all relevant regulations, for the entry of telecommunications cables into a building.

Bunch Stranding A group of wires of the same diameter twisted together without a predetermined pattern.

Buried Cable A cable installed directly in the earth without use of underground conduit. Also called "direct burial cable."

BUS Consists of a common transmission path with a number of nodes attached to it. Sometimes referred to as linear network topology.

Bus Topology A local area network (LAN) topology in which endpoints connect to a single wire or fiber, or set of wires or fibers, at any point. The Ethernet LAN is one example.

Cable An insulated conductor, or group of individually insulated conductors in twisted or parallel configuration.

Cable Assembly A completed cable and its associated hardware ready to install.

Cable Fill The ratio of cable installed into a conduit/trunking against the theoretical maximum capacity of the conduit/trunking.

Cable Rack The vertical or horizontal supports, usually made of aluminum or steel, that are attached to a ceiling or wall. Cables are laid in and fastened to the rack. Sometimes called trays.

Cable Routing Diagram A detailed drawing showing the layout of the cable routes.

Cabling A system of telecommunications cables, cords and connecting hardware that can support the connection of information technology equipment.

Cabling Factor Used in the formula for calculation the diameter of an unshielded, unjacketed cable. $D = Kd$, where D is the cable diameter, K is the factor and d is the diameter of one insulated conductor.

CAD/CAM Computer-Aided Design/Computer-Aided Manufacturing.

Campus A premises containing more than one building adjacent or near to one another.

Campus Backbone Cable The communications cable that is part of the Campus Backbone Subsystem and runs between buildings. There are four methods of installing campus backbone cable: in-conduit (in underground

conduit), direct-buried (in trenches), aerial (on poles), and in-tunnel (in stream tunnels). A cable that connects the campus distributor to the building backbone distributor(s). Campus backbone cables may also connect building cabling distributors directly.

Campus Cable Entrance The point at which Campus Backbone Subsystem cabling (aerial, direct-buried, or underground) enters a building.

Capacitance The property in a system of conductors and dielectrics that permits the storage of electrically separated charges whenever a difference in potential exists between the conductors. Capacitance is undesirable in copper wire cable because it interferes with signals travelling on the wire by opposing the desired flow of current.

Capacitance Unbalance A measurement of a cable's impedance based on a curve fit equation using the cable's raw input impedance. Specified by ANSI/TIA/EIA 568A but not ISO/IEC11801.

Characteristic Impedance The impedance that, when connected to the output terminals of a transmission line of any length, makes the line appear infinitely long. The ratio of voltage to current at every point along a transmission line on which there are no standing waves.

Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA) Network access method using contention similar to Carrier Sense Multiple Access/Collision Detection (CSMA/CD) used by Local Talk networks. Unlike CSMA/CD, in this method the sending node requests permission to transmit. It defines protocols for user or applications programs.

Carrier Sense Multiple Access/Collision Detection (CSMA/CD) Network access method in which nodes contend for the right to send data. If two or more nodes attempt to transmit at the same time, they abort their transmission until a random time period of microseconds has transpired and then attempts to resend.

Category 3 For cable and connecting hardware products with transmission characteristics specified to 16 MHz, typically used to support digital transmission of 10 Mb/s.

Category 5 For cable and connecting hardware products with transmission characteristics specified to 100 MHz, typically used to support digital transmission of 100 Mb/s and above.

Category 5e This is an enhanced version of Category 5, with additional parameters specified to enable parallel transmission with full duplex across the four pairs. Enhanced Category 5 specifications for cable and connecting hardware products with transmission characteristics specified to 100 MHz, intended to support digital transmission of 1000 Mb/s.

Glossary

Category 6 For cable and connecting hardware products with transmission characteristics specified to 250 MHz, used to support digital transmission of 1 Gb/s and above.

Category 7 For cable and connecting hardware products with transmission characteristics specified to 600 MHz. Category 7 is a cable standard only and will require a new connector standard to fully exploit transmission at the above frequencies.

Ceiling Distribution Distribution system that uses the space between the false or suspended ceiling and the structural ceiling for housing horizontal cable routes.

Cell Relay A fast packet switching technique which uses fixed-length cells. Generic name for ATM, SMDS and BISDN.

CENELEC European committee for electrotechnical standardization.

CENELEC EN 50173 The European standard for generic cabling for customer premises.

CENELEC EN 50174 A proposed European cabling systems planning & installation standard developed by CENELEC.

Central Processing Unit (CPU) A personal computer's (PC's) primary microprocessor chip.

Channel The end-to-end transmission path connecting any two pieces of application-specific equipment. Equipment cables and work area cables are included in the channel.

Characteristic Impedance A frequency-dependent resistance that quantifies the complex opposition to current flow offered by a transmission line.

Chromatic Dispersion Chromatic dispersion describes the tendency for different wavelengths to travel at different speeds in a fiber. If operated at wavelengths where chromatic dispersion is high, optical pulses tend to temporarily broaden, leading to intersymbol interference, which can produce an unacceptable bit error rate.

Churn The relocation of an individual or a group of individuals within a building such that the workspace or services to the workspace require change.

Circuit A two-way communications path between electronic devices.

Circular Mil The area of a circle one mil (.001") in diameter; 7.854×10^{-7} sq. in. Used in expressing wire cross sectional area.

Cladding The low refractive index material that surrounds the core of an optical fiber, usually pure silica.

Client A node that requests network services from a server.

Client-Server A technique by which processing can be distributed between nodes requesting information (clients) and those maintaining data (servers).

Closet A location for hardware, conduits, power panels, and electronics such as multiplexers and concentrators.

Coating A protective layer of material over the cladding of an optical fiber.

Coaxial Cable (Coax) A cable with a center conductor surrounded by a thick insulation, surrounded by an outer conductor made of metal braid. An outer jacket insulation is optional.

Collapsed Backbone This architecture is a backbone topology where wiring concentrators located at floor levels are attached in a star configuration to a central high performance switching concentrator.

Color Code A system for circuit identification through use of solid colors and contrasting tracers.

Composite Cable A cable construction technique that combines multiple cables or media in a single overjacket.

Concentric Stranding A central wire surrounded by one or more layers of helically wound strands in a fixed geometric arrangement.

Concentricity In a wire or cable, the measurement of the location of the center of the conductor with respect to the geometric center of the surrounding insulation.

Conductivity The capability of a material to carry electrical current—usually expressed as a percentage of copper conductivity (copper being 100%).

Conductor A medium such as copper wire that can carry electrical current.

Conduit A pipe, usually metal, that runs underground from floor to floor, or along a floor or ceiling to protect cables. In the Riser Backbone Subsystem when riser telecommunications closets are not aligned, conduit is used to protect cable and provide the means for pulling cable from floor to floor. In the Horizontal Subsystem, conduit may be used between a telecommunications closet and an information outlet in an office or other room. Conduit is also used for in-conduit campus distribution, where it is run underground between buildings and intermediate manholes and is made of plastic encased in concrete. Multiduct, clay-tile conduit may also be used.

Connecting Block A flame-retardant plastic block containing metal wiring terminal (quick clips) that establishes an electrically tight connection between the cable and the cross-connect wire.

Glossary

Connecting Hardware See Cross-Connect.

Connector A device that allows you physically to connect and disconnect copper wires or fibers to cable equipment or to other wires or fibers. Copper wire and fiber-optic connectors must often join transmission media to equipment or cross-connects.

Consolidation Point An interconnection point in horizontal cabling, typically used to support the re-arrangement of furniture closets.

Continuity Check A test to determine whether electrical current flows continuously throughout the length of a single wire or individual wires in a cable.

Copolymer A compound resulting from the polymerization of two different monomers.

Cords A short length of copper wire or fiber-optic cable with connectors on each end. Used to connect equipment to cabling, or to connect cabling segments (cross-connection).

Core The central transmission area of a fiber. The core always has a refractive index higher than that of the cladding.

Coulomb (C) A quantity of electricity transferred by a current of one ampere in one second.

Coverage The percent of completeness with which a metal braid covers the underlying surface.

CPU See Central Processing Unit (CPU).

CRC See Cyclic Redundancy Check (CRC).

Crazing The minute cracks on the surface of plastic materials.

Cross-Connect A component where communication circuits are administered (that is, added or rearranged using jumper wire or patch cords). In 110 Connector Systems, Hook-Up Wire or patch cords are used to make circuit connections. In fiber-optic connector systems, fiber-optic patch cords are used. The cross-connect is located in an equipment room or telecommunications closet/room. See also Jumper Wire and Patch Cord.

Cross-Connect Field Copper wire or fiber terminations grouped to provide cross-connect capability. The groups are identified by color-coded sections of back boards mounted on the wall in equipment rooms or telecommunications closet/room, or by designation strips or labels placed on the wiring block or unit. The color coding identifies the type of circuit that terminates at the field.

Crosstalk An electromagnetic coupling between two physically isolated circuits in a system. This coupling causes a signal on one circuit to induce a noise voltage on adjacent circuits, thereby causing signal interference.

CSA Canadian Standards Association.

CSMA/CA See Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA).

CSMA/CD See Carrier Sense Multiple Access/Collision Detection (CSMA/CD).

Customer Premises Equipment (CPE) Customer owned equipment used to terminate or process information from the public network e.g., Multiplexed or PABX.

Cut-Through Resistance The ability of a material to withstand mechanical pressure, usually a sharp edge or small radius, without separation.

Cyclic Redundancy Check (CRC) A coded sequence of information allowing error checking and correction.

Data Communications General terminology for data communications equipment such as

Equipment (DCE) modems. A device that terminates a data communications session and provides encoding or conversion if necessary. See also Data Terminating Equipment (DTE).

Data Link Layer Layer 2 of the Open Systems Interconnect (OSI) model; it defines protocols governing data packets, and transmission into and out of each node.

Data Terminating Equipment The term used to describe any type of computer or other equipment,

(DTE) when connected to a data communications network.

dB See Decibel (dB).

dB/km See Decibel/kilometer (dB/km).

DB9 A standardized connector with nine pins for token ring and serial connections.

DB15 A standardized connector with 15 pins for Ethernet transceivers.

DB25 A standardized connector with 25 pins for parallel or serial connections.

DCE See Data Communications Equipment (DCE).

DD Cord Telecommunications cord that extends between the distribution device and the auxiliary disconnect outlet.

Decibel (dB) A unit used to measure relative increase or decrease in power, voltage or current, using a logarithmic scale.

Decibel/kilometer (dB/km) A unit of measurement for fiber-optic attenuation.

Glossary

Delay Skew Delay Skew is the difference in propagation delay between any two pairs within the same cable sheath.

Demarcation Point A point where operational control or ownership changes.

Dielectric A nonconducting or insulating material that resists passage of electric current.

Dielectric Cable A nonconducting cable, such as fiber-optic cable, without metallic members.

Dielectric Constant The ratio of the capacitance of the insulated wire to that of the same wire uninsulated in air.

Dielectric Strength A measure of the maximum voltage that the insulation of a particular cable can withstand without breakdown.

Digital Signal A signal that represents information by a series of fixed, encoded, rectangular pulses, usually consisting of two possible voltage levels. Each voltage level indicates one of two possible values or logic states, such as on or off, open or closed, true or false. See also Analog Signal.

Digital Transmission A technique in which all information is converted into binary digits for transmission.

Direct Current Resistance (DCR) The resistance offered by any circuit to the flow of direct current.

Dispersion The tendency of a beam of light to spread out and lose its focus.

Dissipation Factor The tangent of the loss angle of the insulation material. (Also referred to as loss tangent, tan, and approximate power factor.)

Distribution Device (DD) Terminates and cross-connects cables. Central point of connection for all building cables.

Distributor The term used for the functions of a collection of components (for example, patch panels, patch cords) used to connect cables.

DIW See Network Communications Cable (NCC) and Twisted Pair.

Drain Wire In a cable, the uninsulated wire laid over the component or components and used as a ground connection.

DTE See Data Terminating Equipment (DTE) and also Data Communications Equipment (DCE).

Dual-Fiber Cable A type of fiber-optic cable that has two single-fiber cables enclosed in a jacket of extruded plastic.

Ducts The main feeder channels in which communication cable is routed between buildings in a campus environment. See also Campus Backbone Cable.

Eccentricity Like concentricity, a measure of the center of a conductor's location with respect to the circular cross section of the insulation. Expressed as a percentage of displacement of one circle within the other.

EIA See Electronics Industries Association (EIA).

EIA/TIA North American Standards organization.

EIA/TIA 568B North American commercial building telecommunications wiring standard.

EIA/TIA 569A North American commercial building standard for telecommunications pathways and spaces. Its purpose is to standardize specific design and construction practices within and between buildings which are in support of telecommunications media and equipment.

EIA/TIA 606 North American administration standard for the telecommunications infrastructure of commercial buildings. Its purpose is to provide guidelines for a uniform administration scheme for the cabling infrastructure.

Electromagnetic Compatibility (EMC) The ability of a system, equipment or device to operate satisfactorily in its environment without introducing unacceptable electromagnetic disturbance, or being affected by that environment.

Electromagnetic Interference (EMI) The interference in signal transmission resulting from the radiation of nearby electrical and/or magnetic fields. For U/UTP, EMI can be coupled onto a conducting pair and cause circuit noise. Crosstalk is one type of EMI.

Electronics Industries Association (EMA) North American Electronics Association.

Electromagnetic Flux Electric and magnetic fields (commonly referred to as emissions) generated by equipment or system.

Electromagnetic Interference The interference in signal transmission or reception caused by the radiation of electric and magnetic fields (EMI).

ELFEXT See Equal Level Far End Crosstalk.

Elongation The fractional increase in length of a material stressed in tension.

EMC See Electromagnetic Compatibility.

EMI See Electromagnetic Interference.

EN 50173 The European standard for generic cabling for customer premises.

Glossary

EN 50174 European cabling systems planning and installation standard (CENELEC).

Ends In braiding, the number of essentially parallel wires or threads on a carrier.

Equal Level Far End Crosstalk (ELFEXT) Is the same as FEXT, except that the coupled signal at the remote end is relative to the attenuated signal at the remote end on the pair the signal was applied to at the local end.

Equipment Cable A cable connecting equipment to a distributor.

Equipment Cord Cable used to connect telecommunications equipment to horizontal or backbone cabling.

Equipment Room The room in which voice and data common equipment (for example, a DEFINITY® switch) is housed, protected, and maintained, and where circuit administration is done using the trunk and distribution cross-connects.

Equipment Subsystem The part of a premises distribution system that includes the cable and distribution components in an equipment room and that interconnects system-common equipment, other associated equipment, and cross-connects.

Ethernet A LAN transmission standard originally developed by IEEE 802.3. Ethernet is a shared bandwidth technology based on bus topology and CSMA/CD. Ethernet has evolved from its beginning as a 10 Mb/s coax network (10Base5) to include a 10 Mb/s twisted pair standard (10BaseT), a 100 Mb/s 4 pair/twisted pair standard (100BaseVG), 100 Mb/s over 2 pair/twisted pair standard (100Base - x) and a draft standard for gigabit transmission over twisted pair.

Farad (F) The standard unit of capacitance.

Far End Crosstalk (FEXT) Refers to the undesired coupling of signals from the transmit pair onto the receive pair at the other (=far) end. FEXT isolation is also expressed in dB. For some applications this is an important parameter, for most applications however, the NEXT values are more important.

Fast Ethernet A 100 Mb/s LAN based on CSMA/CD Protocol. See 100BASE-T.

Federal Communications A board of five commissioners, appointed by the President, that

Commission (FCC) regulates all electronic communications systems originating in the United States, including telephone systems.

FEXT See Far End Crosstalk.

FDDI See Fiber Distributed Data Interface.

Fiber Any filament or fiber, made of dielectric materials, that guides light. See also Fiber-Optics.

Fiber Channel This is an ANSI standard describing point to point and switched point to point physical interface, transmission protocol, signaling protocol, services and command set mapping of a high performance serial link for uses between mainframe computers and computer peripherals.

Fiber Distributed Data Interface (FDDI) An American National Standards Institute (ANSI) standard for a fiber-based token ring physical and data link protocol that operates at a 100 Mb/s data transfer rate.

Fiber-Optic A fiber-optic cable in which individual optical fibers are formed into a cable for primary use inside a building.

Fiber-Optics The technique of conveying lights or images through glass or plastic fibers. Incoherent fiber-optics will transmit light but not an image; coherent fiber-optics will transmit both and should actually be called "aligned fiber-optics" because the fibers are all the same length and are held in a constant spatial relationship.

Fiber-Optic Building Cable A fiber-optic cable in which individual optical fibers are formed into a cable for primary use in a side building.

Fiber-Optic Cable A transmission medium consisting of a core of glass or plastic surrounded by a protective cladding, strengthening material, and outer jacket. Signals are transmitted as light pulses, introduced into the fiber by a light transmitter (either a laser or light-emitting diode [LED]). Some of the advantages offered by fiber-optic cable are low data loss, high-speed transmission, large bandwidth, small physical size, light weight, and freedom from electromagnetic interference and grounding problems.

Fiber-Optic Connectors Connectors designed to connect and disconnect either single or multiple optical fibers repeatedly. Fiber-optic connectors are used to connect fiber cable to equipment and interconnect cables.

Fiber-Optic Cross-Connection Fiber-optic apparatus for terminating cable in couplings. Designed for high-density cross-connection fields. Cross-connections are handled with fiber-optic patch cords. See also Patch Cord.

Fiber-Optic Cross-Connect A component of fiber-optic cross-connect hardware.

Distribution System accommodates 24-216 fiber terminations. Also referred to as a shelf or frame.

Glossary

Fiber-Optic Interconnect An interconnection unit used for circuit administration and built from modular cabinets. It provides interconnection for individual optical fibers but, unlike the fiber-optic cross-connect panel, it does not use patch cords or jumpers. The fiber-optic interconnect provides some capability for routing and rerouting circuits, but is usually used where circuit rearrangements are infrequent.

Fiber-Optic Interconnection Unit A component of fiber pitch cross-connect hardware. This component accommodates 12, 24 or 48-fiber terminations. Also referred to as an LIU.

Fiber-Optic Splice A fiber-optic cable splice is used to join together 2 or 24 fiber-optic cable ends, permanently.

Field See Cross-Connect Field.

Figure 8 Cable An aerial cable configuration in which the conductors and the steel strand which supports the cable are integrally jacketed. A cross section of the finished cable approximates the figure "eight."

File Server A computer that stores data centrally for network users and manages access to that data. File servers can be dedicated so that no processes other than network management can be executed while the network is available, or nondedicated so that standard user applications can be run while the network is available.

Fire Walls Walls that go from structural floor to structural ceiling and, therefore, help prevent fire from spreading from one area to another.

Flame Resistance The ability of a material not to propagate flame once the heat source is removed.

Flex Life The measurement of the ability of a conductor or cable to withstand repeated bending.

Flood Wiring The concept of wiring for future growth, by providing full coverage of information outlets.

Floor Distributor The distributor used to connect between the horizontal cable and other cabling subsystems or equipment (see telecommunications closet).

Foil Screened Twisted Pair Cable (F/UTP) A cable that uses a metallic Foil to surround the conductors in a Twisted Pair cable.

Frame A metallic structure for hanging switch hardware.

FR-1 A flammability rating established by Underwriters Laboratories for wires and cables that pass a specially designed vertical flame test. This designation has been replaced by VW-1.

Frequency The number of cycles completed by a signal in one second: measured in Hertz (Hz).

F/UTP See Foil Screened Twisting Pair Cable.

Full Duplex In contrast to half-duplex devices, full duplex ones allow permanent, simultaneous two-way transmission of information, without interaction or interference of receive and transmit signals.

Full Duplex Ethernet Full Duplex Ethernet will allow nodes to transmit and receive data at the same time, bringing aggregate throughput to 20 Mb/s. The CSMA/CD protocol may have to be disabled for the full duplex mechanism to function.

Gauge A measure of a conducting wire's physical size, usually referred to as AWG (American Wire Gauge). See also American Wire Gauge (AWG).

Generic Cabling A structured telecommunications cabling system, capable of supporting a wide range of applications. Generic cabling can be installed without prior knowledge of the required applications. Application specific hardware is not a part of generic cabling.

Giga A numerical prefix denoting one billion (10^9).

Graded-Index Fiber An optical fiber with a refractive index that gets progressively lower away from the axis. This causes the light rays to be continually refocused by refraction in the core. It bends the rays inwards and allows them to travel faster in the lower index of refraction regions. This type of fiber provides high bandwidth capabilities.

Ground A conducting connection, intentional or accidental, between a circuit or equipment and the earth.

H See Henry.

Half Duplex A telecommunications device allowing two-way transmission of signals or other information, but only in one direction at a time. Thus a half-duplex device cannot simultaneously transmit and receive, though interspersed bursts in each direction are possible.

Hard Drawn Copper Wire Copper wire that has not been annealed after drawing. Sometimes called HD wire.

Henry (H) The standard unit of inductance. The inductance of a current is one Henry when a current variation of one ampere per second induces one volt.

Hertz (Hz) The standard unit of frequency; equal to one cycle per second.

Hi-Pot A test designed to determine the highest voltage that can be applied to a conductor without breaking through the insulation.

Glossary



Horizontal Cable A cable connecting the floor distributor to the telecommunications outlet(s).

Horizontal Length (HL) The cable distance from the information outlet to the blue field of the cross-connect.

Horizontal Runs The part of the premises distribution system installed on one floor that includes the cabling and distribution components connecting the riser backbone or equipment wiring to the information outlet. See Horizontal Subsystem.

Horizontal Subsystem The part of a premises distribution system installed on one floor that includes the cabling and distribution components connecting the Riser Backbone Subsystem to the information outlet via cross-connect components of the Administration Subsystem.

Hub(S) A concentrator or repeater in a star topology at which node connections meet.

Hybrid Cable An assembly of two or more different types of cable units, cables or categories covered by an overall sheath. It may be covered by an overall shield.

Hypalon® Dupont's trade name for their chlorosulfonated polyethylene, and ozone resistant synthetic rubber.*

*Hypalon is a registered trademark of E.I. DuPont de Nemours and Co.

Hz See Hertz (Hz).

IBM International Business Machines Corporation.

IEC 60332 The international standard covering fire performance of cables.

IEEE Institute of Electrical and Electronic Engineers in the USA. This organization is also involved in producing Local Area Network standards such as 10BASE-T and Token Ring.

Impedance The total opposition that a circuit offers to the flow of alternating current or any other varying current at a particular frequency. It is a combination of resistance R and reactance X, measured in ohms.

Individual Pair Screened Where each twisted pair in one overall cable has its own screen.

Inductance The property of a circuit or circuit element that opposes a change in current flow, thus causing current changes to lag behind voltage changes. It is measured in henrys.

Integrated Services Digital Network (ISDN) Integrated voice and data network based on digital communications technology and standards interfaces.

Intelligent Buildings Buildings that maximize the efficiency of its occupants and allow effective management of resources with minimum life-time costs. (Source: European Intelligent Building Group).

Interconnect Cables that connect telecommunications closets/rooms.

Interconnect A circuit administration point, other than a cross-connect or information outlet, that provides capability for routing and rerouting circuits. It does not use patch cords or jumpers. Typically it is a jack-and-plug device used in smaller distribution arrangements or to connect circuits in large cables to those in smaller cables.

Interface Cards See Network Interface Cards.

Interference A signal impairment caused by the interaction of another unwanted signal.

International Standards Organization (ISO) The organization responsible for the Open Systems Interconnect (OSI) standards.

International Telegraphy and Telephone Consultative Committee (CCITT) A standards organization that, among numerous other activities, specializes in the electrical and functional characteristics of switching equipment. The CCITT sets standards for interfaces to ensure compatibility between data communications equipment (DCE) and data terminating equipment (DTE).

Interoperability The ability to operate and exchange information in a heterogeneous network.

Insulation A material having high resistance to the flow of electric current. Often called a dielectric in radio frequency cable.

Insulation Displacement The type of wire terminals that require no wire stripping; when the wire is correctly attached, its insulation is displaced (pierced) to form a connection.

Insulation Resistance The ratio of the applied voltage to the total current between two electrodes in contact with a specific insulation, usually expressed in megaohms-M feet.

IO Information Outlets (IO) is a connector where the horizontal cable terminates.

ISDN See Integrated Services Digital Network (ISDN).

ISO See International Standards Organization (ISO).

ISO/IEC IS 11801 An international standard for generic cabling for customer premises.

ISO/IEC 14763-1 The international standard for basic administration of generic cabling.

Glossary

Isochronous Ethernet This is part of the IEEE 802.9 integrated services LAN standard. It is an extension of 10BASE-T which provides for the inclusion of a 6.144 Mb/s isochronous (real time and delay sensitive) data service in addition to the 10 Mb/s 10BASE-T packet service. It will provide multimedia capability.

ISO Seven Layer Model A 7 layer hierarchical reference structure developed by the ISO for defining, specifying and relating communications protocol.

ISP/IEC 11801 An international standard for generic cabling system. Very similar to the ANSI/TIA/EIA 568A.

J See Joule (J).

Jack A receptacle used with a plug to make electrical contact between communications circuits. Jacks and their associated plugs are used in a variety of connecting hardware applications including adapter, information outlets, and equipment connections.

Jacket The flexible covering of a cable, used to protect the color-coded conductors inside.

Joule (J) A unit of work or energy equal to 0.7375 foot-pounds.

Jumper A cable unit or cable element without connectors used to make a connection on a cross-connect.

Jumper Wire A short length of connectorized copper wire used to route a circuit by linking two cross-connect termination points.

Keying A mechanical feature of a connector system which guarantees correct orientation of a connection or prevents the connection to a jack or optical fiber adapter of the same type intended for another purpose.

Kilo A numerical prefix denoting 1000 (10^3).

LAN See Local Area Network (LAN).

Lay The length measured along the axis of a wire or cable required for a single strand (in stranded wire) or conductor (in cable) to make one complete turn about the axis of the conductor or cable.

LC Connector A high density connector for fiber-optic applications used in both public and private networks. This high performance connector is available in both single-mode and multimode.

Link The transmission path between any two interfaces of generic cabling. It excludes equipment cables and work area cables.

Link Budget Optical loss budget that determines the maximum distance allowable between stations. Loss and dispersion factors are included.

Local Area Network (LAN) A data communications network consisting of host computers or other equipment interconnected to terminal devices, such as personal computers, often via twisted-pair or coaxial cables. LANs allow users to share information and computer resources. Typically, a network is limited to a single premises.

Longitudinal Shield A tape shield, flat or corrugated, applied longitudinally with the axis of the core being shielded.

Loop Resistance Sum of conductor resistance and shield resistance (DCR).

Loss Energy dissipated without accomplishing useful work.

Low Loss Dielectric An insulating material that has a relatively low dielectric loss, such as polyethylene or Teflon.

MAC See Media Access Control (MAC).

MAU See Multistation Access Unit (MAU).

Mb See Megabit (Mb).

MB See Megabyte (MB).

Mbaud See Megabaud (Mbaud).

Media Access Control (MAC) Refers to both the media access portion of the Fiber Distributed Data Interface (FDDI) standard and the hardware and firmware (MAC entity) which implements this portion of the standard.

Media Interface Connector (MIC) A port connector also known as a "data connector" on a multistation access unit (MAU) in a token ring environment; also a dual-fiber connector for Fiber Distributed Data Interface (FDDI).

Megabaud (Mbaud) One million baud.

Megabit (Mb) One million binary bits.

Megabyte (MB) One million binary bytes.

MegaHertz (MHz) One million Hertz (cycles per seconds).

MegaHertz-kilometer (MHz-km) A bandwidth-length product rating for multimode fiber. Bandwidth of the fiber is found by multiplying its length by its bandwidth-length product.

MHz See MegaHertz (MHz).

MHz-km See MegaHertz-kilometer (MHz-km).

MIC See Media Interface Connector (MIC).

Microfarad (μF) One-millionth of a farad. This is the common unit for designating capacitance in electronics and communications.

Glossary

Micron (μm) A micrometer; one-millionth of a meter.

Mil A unit used in measuring diameter of a wire or thickness of insulation over a conductor. One one-thousandth of an inch (.001").

Modal Bandwidth Bandwidth limited by modal dispersion inherent in multimode fiber-optic cable.

Modal Dispersion In multimode fiber the dispersion is caused by modal dispersion. Modal dispersion exists because the different light rays (modes) have a different path length, therefore rays entering at the same time will not leave the fiber at the same time at the other end of the fiber.

Modem A modulator/demodulator unit used for data transmission. It converts digital data into analog tones when transmitting over standard voice-grade telephone lines and reverses this process when receiving.

Modulus of Elasticity The ratio of stress to strain in an elastic material.

Monomer The basic chemical unit used in building a polymer.

Multimedia A means of conveying information with components in different media such as voice, music, text, graphics, image and video.

Multimode Many light rays (modes) propagating through the fiber core.

Multimode Fiber Optical fibers that have a large core and that permit nonaxial rays or modes to propagate through the core. 62.5 micron is the common standard core size for premises cabling systems.

Multiplexing The process of combining multiple signals, usually by time-division multiplexing (TDM) on a high-frequency carrier, to optimize the use of available transmission media.

Multistation Access Unit (MAU) A concentrator or transceiver for attracting nodes to a transmission medium.

Mutual Capacitance Capacitance between two conductors when all other conductors including ground are connected together and then regarded as an ignored ground.

Nano A numerical prefix denoting one-billionth (10^{-9}).

Nanometer (nm) A unit of length in the metric system denoting one-billionth of a meter ($10 \mu\text{m}$).

National Electrical Code A consensus standard published by the National Fire Protection Association (NFPA) and incorporated in OSHA regulations.

NCC See Network Communications Cable (NCC).

Near End Crosstalk (NEXT) Crosstalk that occurs at the same end as the disturbed pair's receiver. Normally, this is the largest contributor of noise because the disturbing pair's transmitted signal is strongest at this point.

NEC See National Electrical Code (NEC).

Network The local and long-distance telecommunications capability provided by common carriers for switch and private line telecommunications services. A system of software and hardware connected in a manner to support data transmission.

Network Communications Cable (NCC) Network Communications Cable, often called NCC, is generally used in the Riser Backbone Subsystem in locations not involving plenums. The cable consists of 24-AWG, annealed-copper conductors insulated with color-coded polyvinyl chloride (PVC) in twisted pairs, encased in an outer PVC jacket whose frictional properties permit it to be pulled in conduit without the aid of lubricants. This type of cabling used to be referred to as Direct Inside Wire (DIW).

Network Interface The point of interconnection between building communications wiring and outside communications lines (telephone company facilities).

Network Interface Cards (NICs) The piece of equipment that is installed into the expansion port of a personal computer and allows communication between the PC and the network.

Network Interface Device (NID) Point of connection between networks.

Network Layer The network layer is layer 3 of the OSI model. This layer sets up an end-to-end connection across a network determining which permutation of individual links to be used. Thus the network layer performs overall routing functions.

NEXT See Near End Crosstalk (NEXT).

nm See Nanometer (nm).

Node(s) A piece of communications equipment on the network.

Noise The term used for spurious signals produced in a conductor by sources other than the transmitter to which it is connected. Noise can affect a legitimate signal to the extent that it is inaccurate or indecipherable when it reaches the receiver. The higher the speed of data transmission, the worse the effects of noise become.

Glossary

Numerical Aperture The size of the vertex angle of the largest core of rays that can enter or leave a multimode fiber-optic system, multiplied by the refractive index of the medium in which the vertex of the core is located.

OFHC Abbreviation for Oxygen-Free, High Conductivity copper. It has no residual deoxidant, 99.95% minimum copper content and an average annealed conductivity of 101%.

Ohm A unit of electrical resistance.

Open System Interconnection (OSI) A conceptual model specified by CCITT recommendations in the X200 series. The model describes the 7-layer process of communication between 'co-operating' computers. The model provides a standard for the development of communication protocols allowing for computers of different manufacturers to be interconnected.

Optical Connectors See Fiber-Optic Connectors.

Optical Cross-Connection See Fiber-Optic Cross-Connection.

Optical Fiber A transmission medium consisting of a core of glass or plastic surrounded by a protective cladding. Signals are transmitted as light pulses, introduced into the fiber by a light transmitter i.e. Laser or an LED.

Optical Interconnect See Fiber-Optic Interconnect.

Optical Splice See Fiber-Optic Splice.

Optical Time-Domain Reflectometer (OTDR) An instrument that characterizes cable loss by measuring the backscatter and reflecting of injected light as a function of time. It is useful for estimating attenuation and for locating splices, connections, and breaks.

OSI See Open System Interconnection (OSI).

OTDR See Optical Time-Domain Reflectometer (OTDR).

Outlet Cable Cable extending directly between the telecommunications outlet/connector and the distribution device.

Outlets A term used to describe the sockets provided in the work location of a Structured Cabling System. These are usually 8-pin modular sockets which can support a variety of services e.g., voice, video and data.

Oxygen Index Percentage of oxygen necessary to support combustion in a gas mixture.

PABX Private Automatic Branch Exchange. A private switching system that switches calls both internally within a building or premises and outside to the telephone network.

Packet-Switching A type of exchange or network which conveys a string of information from origin to destination by cutting it up into a number of packets and carrying each independently. A packet-switched effect could be achieved by sending individual pages of a book through the post separately. The receiving device reassembles the message. Thus a direct connection between origin and destination does not exist at any point.

Pair Two wires grouped (usually twisted) together and marked with reciprocal color coding. See also Twisted Pair.

Pair-to-Pair Crosstalk The crosstalk measurement of a single disturbing pair. It can be made for NEXT or FEXT.

Patch Cable A length of cable with connectors on one or both ends to join telecommunications links.

Patch Cord(s) A short length of copper wire or fiber-optic cable with connectors on each end used to join communications circuits as a cross-connect.

Patch Panel(s) A cross-connect designed to accommodate the use of patch cords. It facilitates administration for moves and changes.

Pathway(s) Designated cable routes and/or support structures in a false floor or ceiling.

PBX See Private Branch Exchange (PBX).

PDS See Premises Distribution System (PDS).

Percent Conductivity Conductivity of a material expressed as a percentage of that of copper.

Periodicity The uniformly spaced variations in the insulation diameter of a transmission cable that result in reflections of a signal, when its wavelength or a multiple thereof is equal to the distance between two diameter variations.

Peripheral(s) Additions to a system, a resource e.g., printer, scanner, etc.

Permanent Link The transmission path between two mated interfaces of generic cabling, excluding equipment cables, work area cables and cross-connections.

pF See Picofarad (pF).

PHY Physical layer of the Fiber Distributed Data Interface (FDDI) standard. Also used to refer to the actual hardware used to implement the physical layer (PHY entity).

Physical Layer Layer 1 of the open systems interconnection (OSI) model. The physical layer protocol is the hardware and software in the line terminating device which converts the databits needed by the datalink layer into the electrical pulses, modem tones, optical signals or other means which will transmit the data.

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Physical Topology Physical cabling layout i.e., ring, bus, star wired, etc.

Picofarad (pF) A unit of capacitance used to designate capacitance unbalance between pairs or capacitance unbalance of the two wires of a pair to ground. One picofarad equals one trillionth of a farad.

Pick Distance between two adjacent crossover points of braid filaments. The measurement in picks per inch indicates the degree of coverage.

Pico A numerical prefix denoting one-trillionth (10^{-12}).

Pin A conductor on a plug or connector.

Pitch In flat cable, the nominal distance between the index edges of two adjacent conductors.

Plasticizer A Chemical agent added to plastics to make them softer and more pliable.

Plenum Cable Cable specifically designed for use in a plenum, the space above a suspended ceiling used to circulate air back to the heating or cooling system in a building.

Plug A device used for connecting wires to a jack. It is typically used on one or both ends of equipment cords or on wiring for interconnects or cross-connects.

PMD Physical Medium Dependent part of the Fiber Distributed Data Interface (FDDI) standard. Determines the specifications for the fiber-optic transmitters and receivers, fiber-optic cable, fiber-optic connectors, and fiber-optic bypass switch.

Polymer A material of high molecular weight formed by the chemical union of monomers.

Polyolefin Any of the polymers and copolymers of the ethylene family of hydrocarbons.

Polyvinyl Chloride (PVC) A flame-retardant thermoplastic insulation material that is commonly used in jacks or building cables. Both plenum and riser.

Port The cable terminations in the equipment system at which various types of communications devices, switching equipment, and other devices are connected to the transmission network.

Ports A computer interface capable of transmitting and or receiving information.

Power Sum (or PSum) Crosstalk A crosstalk measurement where the crosstalk from all adjacent disturbing pairs in a cable are mathematically summed to give a combined crosstalk value. It simulates the effects of multiple signals in a multi-pair cable or parallel transmission in a 4 pair cable. It can be made for NEXT, FEXT, or ELFEXT.

Premises Distribution System (PDS) The transmission network inside a building or group of buildings that connects various types of voice and data communication devices, switching equipment, and information management systems together, as well as to outside communications networks. It includes the cabling and distribution hardware components and facilities between the point where building wiring connects to the outside network lines, back to the voice and data terminals into the office or other work locations. The system consists of all the transmissions media and electronics, administration points, connectors, adapters, plugs, and support hardware between the building's side of the network interface and the terminal equipment required to make the system operational.

Presentation Layer Layer 6 of the OSI model. Responsible for identifying the syntax of the data being transmitted.

PRI See Primary Rate Interface (PRI).

Primary Rate Interface (PRI) ISDN standard interface comprising 23 B + 1 D Channel for North America, and 30 B + 1 D Channel for Europe. See Basic Rate Interface (BRI) and Integrated Services Digital Network (ISDN). The North American 1.544 Mb/s T1 (23B + D) or European 2.048 interface (PRI) Mb/s E1 (30B+D) ISDN interface is typically used to connect ISDN PBXs to the public ISDN.

Private Branch Exchange (PBX) A private switching system usually serving an organization, such as a business or government agency, and located on the customer's premises. It switches calls both inside a building or premises and outside to the telephone network, and can sometimes also provide access to a computer from a data terminal.

Propagation Delay A signal traveling from end to end of a simplex link is delayed in time by an amount equal to the length of cable divided by the velocity of propagation for that transmission medium. This delay is called Propagation Delay.

Proprietary Networks Networks that are not designed, or installed to any standard based guidelines and do not relate specifically to any relevant standards.

Proprietary Systems Systems that are not standards specific and therefore inoperable with standards based equipment.

Protocol(s) A rule of procedure by which computer devices intercommunicate. Thus a protocol is the equivalent of a human language, with punctuation and grammatical rules.

Public Network Interface A point of demarcation between public and private network. In many cases the public network interface is the point of connection between the network provider's facilities and the customer premises cabling.

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Pulling Tension The amount of pull, measured in pounds, placed on a cable during installation.

Punch-Down A method of securing a wire to a wiring terminal. The insulated wire is placed in the terminal groove and pushed down with a special tool. As the wire is seated, the terminal cuts through the insulation to make an electrical connection, and the spring-loaded blade of the tool trims the wire flush with the terminal.

PVC See Polyvinyl Chloride (PVC).

Quad Fiber Cable A type of fiber-optic cable that has four single cables enclosed in an extruded jacket of polyvinyl chloride (PVC), with a rip cord for pulling back the jacket to access the fibers.

Quad shield Four layers of shielding.

RG/U "RG" is the military designation for "Radio Grade" coaxial cable, and "U" stands for "general Utility."

Raceway Any distribution method designed for holding cables, e.g., conduit, metal or plastic trunking, cable trays, etc.

Rack A vertical or horizontal open support, usually made of aluminum or steel, that is attached to a ceiling or wall. Cables are laid in and fastened to the rack.

Rated Temperature The maximum temperature at which an electric component can operate for extended periods without loss of its basic properties.

Rated Voltage The maximum voltage at which an electric component can operate for extended periods without undue degradation or safety hazard.

Redundancy Risers A fail-safe method of splitting and routing riser/ backbone cables via two or more riser cores. Also known as diverse routing.

Reflection Loss The part of a signal which is lost due to reflection of power at a line discontinuity.

Resistance The property of a conductor that determines the current produced by a given potential difference. It impedes the flow of current and results in the dissipation of power as heat. Resistance is measured in ohms.

Return Loss A measure of reflected energy of a transmitted signal due to impedance variations along the length of the cable plus the mismatch of the cable's impedance from a 100 ohm termination. Signal reflections cause insertion loss and can add noise to the circuit.

RI See Ring In (RI).

Ribbon Fiber Cable A cable that accommodates 1 to 12 ribbons, each ribbon having 12 fibers for a cable size range of 12 to 216 fibers. Ribbon cables are designed for use in large distribution systems where small cable size and high pulling strength are important.

Ribbon Riser Cable An optical fiber, nonconductive, riser (OFNR)-rated premises cable containing optical fibers in ribbons.

Ring A closed loop network topology.

Ring In (RI) Port for connecting in multistation access units (MAUs) together.

Ring Out (RO) Port for connecting out multistation access units (MAUs) together.

Riser(s) The term used to describe a space utilized by backbone cabling to house communications cabling and other building services. This space should preferably be specified, or allowed for, at the time of the building design.

Riser Backbone Subsystem The part of a premises distribution system that includes a main cable route and structure for supporting the cable from an equipment room (often in the building basement) to the upper floors, or along the same floor, where it is terminated on a cross-connect in a riser telecommunications closet, at the network interface, or at distribution components of the Campus Backbone Subsystem.

RO See Ring Out (RO).

Rope Lay Conductor A conductor composed of a central core surrounded by one or more layers of helically laid groups of wires.

Router(s) A router can be used to connect networks with similar protocols (802.5 token ring local area networks [LANs]) or dissimilar Open Systems Interconnection (OSI) model protocols (802.5 token ring LANs and X.25 packet-switching networks). Routers are more sophisticated than bridges and can be used to prevent some of the speed mismatch, security, and reliability problems that occur in large networks. An intermediate system between two or more networks capable of forwarding data packets at the network layer (layer 3).

Satellite Cabinet Surface-mounted or flush-type wall cabinets for housing circuit administration hardware. Satellite cabinets, like satellite telecommunications closets/rooms, supplement riser telecommunications closets by providing additional facilities for connecting horizontal cables from information outlets in user work areas. Sometimes referred to as a "satellite location."

Satellite Telecommunications Closet/Room A walk-in or shallow wall closet that supplements a riser telecommunications closet by providing additional facilities for connecting riser backbone cables to horizontal cables from

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information outlets. Also referred to as a "satellite location." See also Telecommunications Closet/Room.

Scalable The ability to adapt to different bit rates.

Screened Cable See Foil Screened Twisted Pair Cable (F/UTP).

Screened Twisted Pair or ScTP A 100 ohm cable with an overall foil shield and drain wire.

Serial Communications See Serial Data Transmission.

Serial Data Transmission Data transmission between computer devices using only a single circuit path. Whole bytes of information (8 bits) are sent in sequential pattern. Compares with parallel transmission. Parallel transmission is often used internally within computing devices because of the higher processing speeds which are possible, but for long-distance telecommunication, serial transmission is more economic in terms of line plant.

Serial Port(s)/Transmission Normally a DB 9 pin connector located on the mother board of a PC. A technique in which each bit of information is sent sequentially on a single channel.

Server(s) Host Computer(s).

Service Entrance See Campus Cable Entrance.

Serving Closet See Satellite Telecommunications Closet/Room.

Session Layer Layer 5 of the OSI model. Responsible for establishment and control of dialogs between users on different machines. Synchronization for reliable data transfer and token management to control use of the connection are services provided by this layer.

Sheath The outer covering or jacket of a multiconductor cable.

Shield In cables, a metallic layer placed around a conductor or group of conductors to prevent electrostatic or electromagnetic interference between the enclosed wires and external fields.

Shield Effectiveness The relative ability of a shield to screen out undesirable radiation. Frequently confused with the term shield percentage, which it is not.

Signal To Noise Ratio (SNR) The ratio of the signal magnitude to the noise magnitude and is usually expressed in dB. The higher the SNR of a system, the better is its performance.

Simplex A transmission means allowing only one direction of transmission. (For example public broadcast radio).

Single-Fiber Cable A plastic-coated optical fiber surrounded by an extruded layer of plastic encased in a synthetic strengthening material, and enclosed in a plastic sheath.

Single-mode Optical fiber with a small core diameter in which only a single-mode is propagated. 8.3 micron is the standard core size.

Skin Effect The phenomenon in which the depth of penetration of electric currents into a conductor decreases as the frequency increases.

Sleeves Short lengths of rigid metal pipe, approximately 4 in (10.1 cm) in diameter, located in riser telecommunications closets/rooms, that allows cables to pass from floor to floor when closets are vertically aligned. Sleeves also provide for easy pulling of cable.

Slots Openings in the floor of riser telecommunications closets/rooms that allow cables to pass through from floor to floor when closets are vertically aligned. A slot accommodates more cables than an individual sleeve.

SNR See Signal to Noise Ratio SNR.

SONET Synchronous Optical Network; provides broadband connectivity for existing networks on a global scale.

Source Routing A bridge uses source routing when the route to be followed is carried within each frame by the source stations. The source station acquires and maintains information by a search process, allowing parallel bridges to exist and to share traffic between the same two rings.

Spark Test A test designed to locate pin-holes in the insulation of a wire or cable by application of a voltage for a very short period of time while the wire is being drawn through the electrode field.

Specific Gravity The ratio of the density (mass per unit volume) of a material to that of water.

Spiral Wrap The helical wrap of a tape or thread over a core.

Splice The physical joining of two or more copper wires or optical fibers to form a common connection.

Star A physical point to point network topology.

Star Physical Topology See Star.

Star Quad A cable element which comprises of four insulated conductors twisted together. Two diametrically facing conductors form a transmission pair.

Star Topology See Star.

ST Connector See Straight-Tip (ST) Connector.

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Storage Area Network (SAN) A high-speed network or subnetwork of shared storage devices.

Straight-Tip (ST) Connector A fiber-optic connector used to join single fibers together at interconnects or to connect them to fiber-optic cross-connects.

Strand A single uninsulated wire.

Stranded Cable A strong woven-copper-wire cable used to support cable in aerial distribution systems. The cable is lashed to the stranded cable during installation.

Stranded Conductor A conductor composed of groups of wires twisted together.

Strip Force The force required to remove a small section of insulation material from the conductor it covers. Usually measured in pounds.

Structured Cabling Flexible cabling scheme which allows rapid reconfiguration for office moves through patching.

Structural Return Loss (SRL) A measure of reflected energy of a transmitted signal due entirely to impedance variations along the length of the cable. Signal reflections cause insertion loss and can add noise to the circuit.

Stud Cable A short cable (usually 25 ft (7.6 m) or less) that extends from a cable terminal, protector, or block and is used to make connections to such devices.

Support Hardware The racks, clamps, cabinets, brackets, trays, tools, and other equipment that provide the physical means to attach the transmission media and connecting hardware to walls or ceilings.

Surface Resistivity The resistance of a material between two opposite sides of a unit square of its surface. It is usually expressed on ohms.

Surge A sudden voltage rise and fall in an electrical circuit.

Sweep Test Pertaining to cable, checking frequency response by generation an rf voltage whose frequency is varied back and forth through a given frequency range at a rapid constant rate and observing the results of an oscilloscope.

Switching A function carried out by a switching hub, alleviating traffic by making virtual connections between transmitting and receiving nodes.

Synchronization The method by which the bit patterns appearing on digital line systems may be properly 'clocked' and interpreted — allowing the beginning of particular patterns and frame formats to be correctly identified.

Synchronous Signals that are sourced from the same timing reference and hence are identical in frequency.

Synchronous Data Transfer Data transfer employing a strictly regular pattern, rather than using start and stop bits to distinguish character patterns from idle line operation.

System-Common Equipment The equipment on a premises that provides functions common to terminal devices such as telephones, data terminals, integrated workstations terminals and personal computers. Typically, the system-common equipment is the private branch exchange (PBX) switch, data packet switch, or central host computer. Often called common equipment.

Tape Wrap A spirally applied tape over an insulated or uninsulated wire.

TCP/IP See Transport Control Protocol/Internet Protocol (TCP/IP).

Tear Strength The force required to initiate or continue a tear in a material under specified conditions.

Telecommunications A branch of technology concerned with the transmission, emission, and reception of signs, signals, writing, images and sounds; that is, information of any nature by cable, radio, optical or other electromagnetic systems.

Telecommunications Closet/Room An enclosed space for housing telecommunications equipment, cable terminations, and cross-connect cabling. The telecommunications closet/room is a recognized cross-connect point between the backbone and horizontal cabling subsystems. See also Satellite Telecommunications Closet/Room.

Telecommunication Outlet (TO) Point of connection for devices (TV, computer, fax, etc.) mounted within a wall, floor or ceiling.

Tensile Strength The pull stress required to break a wire/cable.

Terminal Block A protected or unprotected unit of wiring blocks, connecting blocks, and troughs that serves as a transition point between cable conductors.

Tetra A numerical prefix denoting one quadrillionth (10^{-15}).

Thermoplastic A plastic material that softens and flows when heated and becomes firm when cooled. This process can be repeated.

Thermoset A plastic material that is crosslinked by a heating process known as curing. Once cured, thermosets cannot be reshaped.

Thick Coax The transmission medium used for Ethernet or IEEE 802.3 10BASE5 LANs. It is a 50 ohm thick coax cable (commonly referred to as the thick yellow cable).

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Thin Coax The transmission medium used for IEEE 802.3 10BASE2 LANs (sometimes referred to as CheaperNet). It is a 50 ohm thin coax cable.

TIA/EIA North American Standards Organization.

TIA/EIA 568A or B North American Commercial Building Telecommunications Wiring Standard.

TIA/EIA 569 North American Commercial Building Standard for Telecommunications Pathways and Spaces. Its purpose is to standardize specific design and construction practices within and between buildings which are in support of telecommunications media and equipment.

TIA/EIA 606 North American Administration Standard for the Telecommunications Infrastructure of Commercial Buildings. Its purpose is to provide guidelines for a uniform administration scheme for the cabling infrastructure.

Token A special data sequence that is continuously sent around the ring. The term "token" represents permission to transmit from one station to its downstream neighbor.

Token Ring A data link protocol type which implements media access control (MAC) by the circulation of a token around a complete ring network. Each station in the ring sequentially receives the opportunity to send data on the network as the token is passed around the network.

Token Ring LAN A 4 or 16 Mb/s LAN standard based on token passing access protocol originally developed by IBM. Sometimes referred to as IEEE 802.5 or ISO 8802-5 standard.

Topology The physical or electrical configuration of a local communications network (that is, the shape or arrangement of the system). The most common distribution system topologies are the bus, ring, and star.

TP-PMD Twisted Pair Physical Medium Dependent. A twisted pair version of the FDDI standard that allows 100 Mb/s transmission over Category 5 copper cable.

Transducer A sensing device that converts a signal from one form to another e.g., mechanical to electrical.

Transition Point A location in the horizontal cabling where a change of cable form takes place.

Transmission Cable Two or more transmission lines. If the structure is flat, it is sometimes called Flat Transmission Cable to differentiate it from a round structure such as a jacketed group of coaxial cables.

Transmission Distance The actual length of the path from the transmitter of one node to the receiver of the next downstream node. The maximum transmission distance is determined by the maximum signal loss (attenuation limit) that can be withstood between any transmitter and receiver.

Transmission Media The various types of copper wire and fiber-optic cable used for transmitting voice, data, or video signals.

Transport Control Protocol/Internet Protocol (TCP/IP) A common network layer and transport layer data networking protocol.

Transport Layer Layer 4 of the OSI model. The transport layer provides for end-to-end data relaying service across any type of data network and is responsible for end-to-end reliability.

Tray A cable tray system is a unit or assembly of units or sections, and associated fittings, made of metal or other noncombustible materials forming a rigid structural system used to support cables. Cable tray systems (previously termed continuous rigid cable supports) including ladders, troughs, channels, solid bottom trays, and similar structures.

Triaxial Cable A cable construction having three coincident axes, such as conductor, first shield and second shield all insulated from one another.

Trunk A communication link between two switching systems. The term switching typically includes equipment in a central office (or the telephone company) and PBXs. A tie trunk connects PBXs. Central office trunks connect a PBX to the switching system at the central office. See also Private Branch Exchange (PBX).

Twinaxial Cable (TWINAX) Two insulated conductors inside a common insulator, covered by a metallic shield and enclosed in a cable sheath.

Twisted Pair(s) Two insulated copper wires twisted together. The twists, or lays, are varied in length to reduce the potential for signal interference between pairs. In cables greater than 25 pairs, the twisted pairs are grouped and bound together in a common sheath. Twisted pair is the most common type of transmission media.

Twisted Pair - Physical Media Dependent (TP-PMD) A Fiber Distributed Data Interface (FDDI) 100 Mb/s LAN standard that was adopted for twisted pair cable.

UHF Abbreviation for Ultra High Frequency, 300 to 3,000 MHz.

UL Abbreviation for Underwriters Laboratories, a nonprofit independent organization, which operates a listing service for electrical and electronic materials and equipment.

Unshielded Twisted Pair Cable Normal copper building cable, capable of high-speed data transmission. (U/UTP) Techniques exist to address the signal impairments due to the transmission characteristics of copper media and to limit the radiated emission of U/UTP media.

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U/UTP See Unshielded Twisted Pair (U/UTP).

Velocity of Propagation The speed of an electrical signal down a length of cable compared to speed in free space expressed as a percent. It is the reciprocal of the square root of the dielectric constant of the cable insulation.

VHF Abbreviation for Very High Frequency, 30 to 300 MHz.

VSAT Abbreviation for Very Small Aperture Terminal, a small data satellite dish.

Video Conferencing Real time communications via video between two or more users at separate locations.

Video Pair Cable A transmission cable containing low-loss pairs with an impedance of 125 ohms. Used for TV pick ups, closed circuit TV, telephone carrier circuits, etc.

Volt A unit of electromotive force.

Voltage Rating The highest voltage that may be continuously applied to a wire in conformance with standards or specifications.

Voltage Standing Wave Ratio (VSWR) The ratio of the maximum effective voltage to the minimum effective voltage measured along the length of a mis-matched radio frequency transmission line.

VSWR Abbreviation for voltage standing wave ratio.

VW-1 A flammability rating established by Underwriters Laboratories for wires and cables that pass a specially designed vertical flame test, formerly designed FR-1.

W See Watt (W).

Wall Thickness The thickness of the insulation or jacket.

WAN See Wide Area Network (WAN).

Watt A unit of power equal to one joule per second.

Wave Length The distance, measured in the direction of propagation, of a repetitive electrical pulse or waveform between two successive points that are characterized by the same phase of vibration.

Wide Area Network (WAN) Any physical network technology that spans large geographic distances. WANs usually operate at slower speeds and have higher delays than local area networks (LANs).

Windows Graphics based operating system developed by Microsoft.

Wire A conductor, either bare or insulated.

Wireless LANs Local area network that communicates using radio technology.

Wiring Block A molded plastic block that is designed in various pair configurations to terminate cable pairs and establish pair location on 110 Connector Systems.

Wiring Closet See Telecommunications Closet/Room.

Work Area A building space where the occupants interact with telecommunications terminal equipment. A user's work area which is typically 9 sq. meters or 100 sq. ft.

Work Area Cable A cable connecting the telecommunications outlet to the terminal equipment.

Work Area Subsystem The part of a distribution system that includes the equipment and extension cords from the information outlet to the terminal device.

X.25 A communication architecture developed by the International Telegraph and Telephone Consultative Committee (CCITT).

Zone Method A ceiling distribution method in which ceiling space is divided into sections or zones. Cable is then run to the center of each zone to serve the information outlets nearby.

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