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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 Distribution.

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).

Distribution cables for safety and performance

CommScope's distribution 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 distribution 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 distribution 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

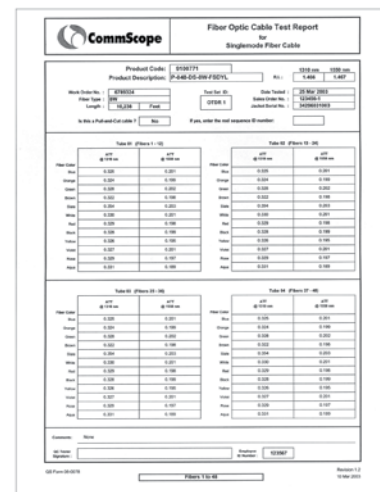
Every reel of CommScope fiber optic cable is subjected to stringent testing throughout the entire manufacturing process. Our state-of-the-art process controls and testing systems insure that every foot of CommScope cable consistently meets or exceeds our high standards.

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.



Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPATCH Plus

G2 Fiber Connectivity

Additional Fiber Connectivity

Tools & Consumables

Fiber Optic Solutions Reference

Fiber Optic Cable

Cable and Fiber Color Identification

Standard Jacket Color (according to fiber type):

Indoor:		Outside Plant and Indoor/Outdoor:
50 micron (LazrSPEED)	AQ for Aqua	All fiber types are BK for Black
62.5 micron (OptiSPEED)	OR for Orange or SL for Slate	
Single-mode (TeraSPEED)	YL for Yellow	

Standard Color Coding:

1 - Blue	5 - Slate	9 - Yellow
2 - Orange	6 - White	10 - Violet
3 - Green	7 - Red	11 - Rose
4 - Brown	8 - Black	12 - Aqua

For indoor and indoor/outdoor, fibers are identified with standard color coding.

For 18 and 24 fiber single unit cables, fibers 13 through 24 repeat the sequence with tracer stripe (i.e. fiber 13 is blue with tracer stripe).

For central tube cables, fiber bundles and fibers are identified with standard color coding.

For stranded loose tube cables, buffer tubes and fibers are identified with standard color coding.

For 18 buffer tube and 25 buffer tube cores found in stranded loose tube cables, buffer tubes 13 through 24 repeat the color sequence with tracer stripe (i.e. tube 13 is blue with tracer stripe).

Cable Sizing and Specification

When sizing and selecting cable, the following rules of thumb are useful. Please note, they are only guidelines. Since each site has its own unique characteristics, a detailed data collection and design process is required.

- A growth factor of between 50% and 100% is often applied after sizing current needs
- Factors affecting backbone cable sizing include:
 - Campus layout
 - Campus size (number of buildings)
 - Level of automation (amount of computer connectivity)
 - Amount of point-to-point traffic vs. LAN traffic
 - Level of redundancy
- Cable type selection is based on environment and cost
- Use a mixture of single-mode and multimode fiber optic cables (recommended 30:70 split minimum, respectively)

Install both Multimode and Single-mode

SYSTIMAX Solutions recommends deploying multimode and single-mode fiber in the backbone segments of both buildings and campuses in the industrial and office environment. This combination will most cost-effectively support present day applications as well as provide future proofing for tomorrow's higher speed LANs and broadband video. Of course these recommendations must be weighed against the application and planning horizons of each customer. The optimal ratio of single-mode to multimode depends on the predicted need to support applications that exceed the capability of multimode. SYSTIMAX Solutions generally recommends 30% single-mode to those customers forecasting gigabit applications in their future. If such applications are in the immediate or near future, then consider higher ratios.

Install Enough Fiber

It is important to install enough fiber to support the present and future applications that will simultaneously share the cable segment. Take into account the type and number of fibers that each application requires and add in spare capacity for future proofing. Generally, LAN applications require two fibers, while video applications will require one or two fibers depending on whether they are unidirectional or bi-directional. (Video links that use bi-directional communications include those that return video, audio, camera control or data signals.) Add in at least 50% spare capacity and round the fiber-count upward to the next standard size.

Basic Configurator for Fiber Optic Cables

Single Unit and Multi-Unit Fiber Optic Cables

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 Outside Plant	Z Zero Halogen Indoor/Outdoor	O Outside Plant (Arid Core*)
M Messenger	P Plenum	S Outside Plant (All Dielectric, Self-Supporting)
N Zero Halogen (Indoor Only)	R Riser	

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

Total Fiber Count (XX variable in catalog number)

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

Outside Plant Cable Constructions

LA Stranded Loose Tube Armored	DA Drop Armored	MN Mini-drop All Dielectric
LN Stranded Loose Tube Non Armored All Dielectric	DF Flat 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	OD I/O Plenum Distribution	LN Stranded Loose Tube Non Armored All Dielectric	CN Central Tube All Dielectric
ZC Zipcord		LH Stranded Loose Tube Heavy Duty Non Armored	

Loose Tube

FiberGuard® For tight buffered and loose tube I/O cables only, use first character of the construction code above plus one of the following:

Z Aluminum Armor w/Jacket
LH cables cannot be Interlocked Armored

Position 4: Fiber Type P - 012 - DS - 5L - FSUAQ

8W TeraSPEED single-mode	5M 50µm, LazrSPEED 150, multimode (OM2+)	5K 50µm, LazrSPEED 550, multimode (OM4)
6F OptiSPEED 62.5/125µm FDDI Grade, multimode (OM1)	5L 50µm, LazrSPEED 300, multimode (OM3)	

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

For Outside Plant Cables, this field designates color of stripe/tracer. Outside Plant 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 Distribution Cables, this field indicates jacket color. Standard jacket colors:

BK Black for Indoor/Outdoor and Tight Buffer Outside Plant	YL Yellow for single-mode
OR Orange for 62.5 Multimode & Composite	AQ Aqua for LazrSPEED & LazrSPEED Composites
SL Slate for 62.5 Multimode & Composite	

*ZZ variable in catalog number. *I/O and OSP Cables are black jacket only

For Indoor Distribution Cables and Zipcords. 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. When Position 3 is LH, LN or LA, Position 8 is 25D, 20G or 20T
 *Other options are available that are not currently listed in the above chart.

Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPATCH Plus

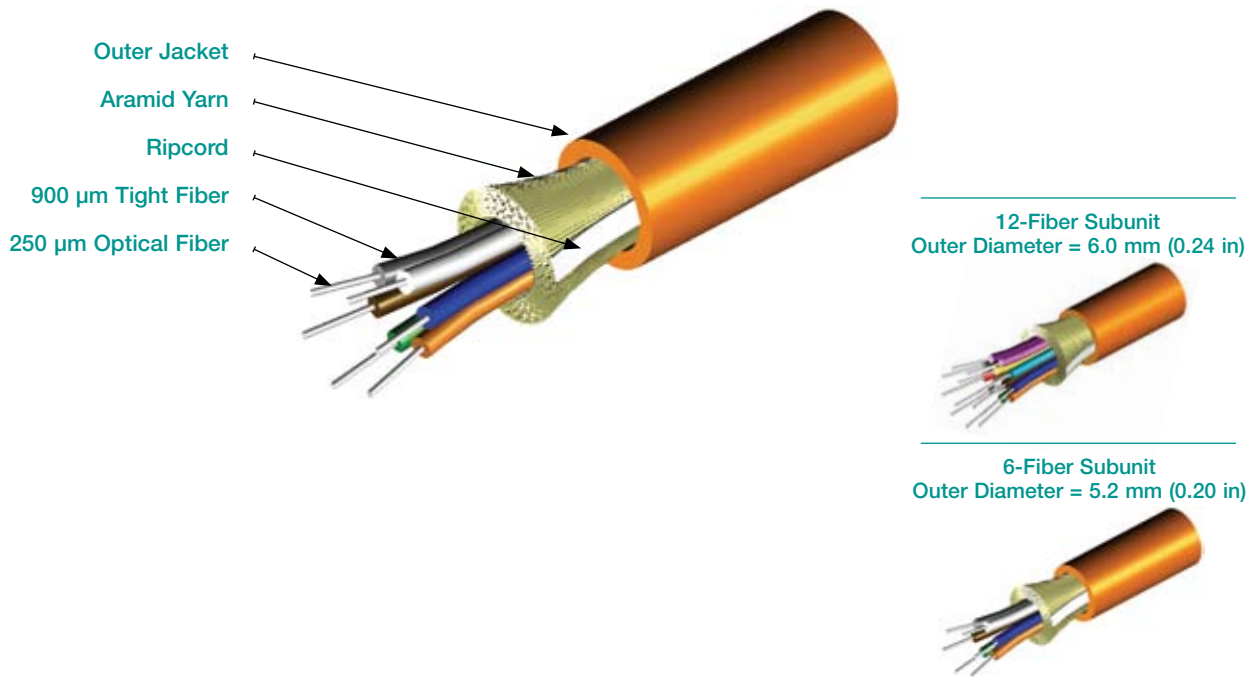
G2 Fiber Connectivity

Additional Fiber Connectivity

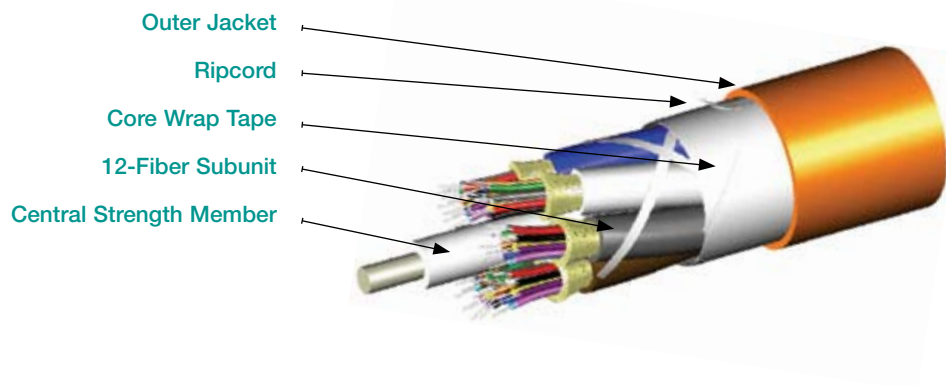
Tools & Consumables

Cable Constructions

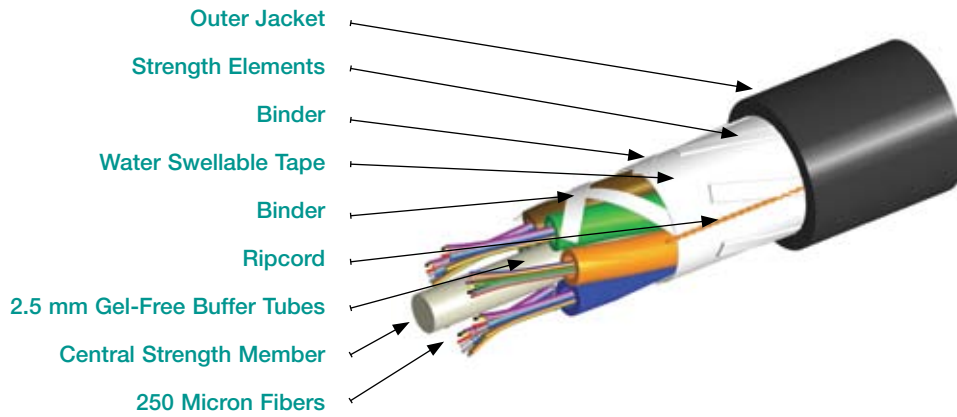
Distribution Cables (Single-Unit Series)



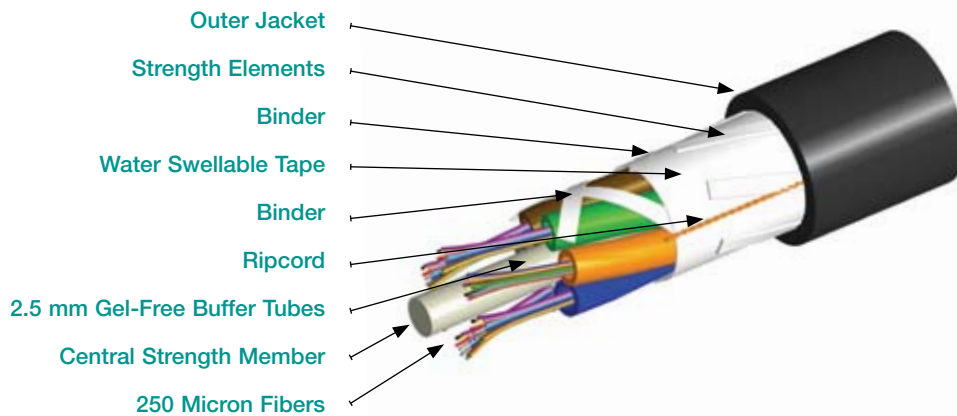
Distribution Cables (Multi-Unit Series)



Indoor/Outdoor Stranded Loose Tube Cables (Plenum P-LN Series)



Indoor/Outdoor Stranded Loose Tube Cables (Riser R-LN Series)



Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

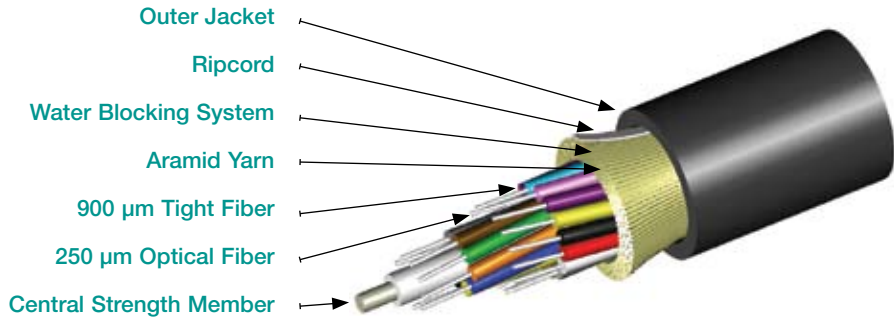
InstaPATCH Plus

G2 Fiber Connectivity

Additional Fiber Connectivity

Tools & Consumables

Indoor/Outdoor Tight Buffered Cables (Single Unit Z-DS, P-OD Series)



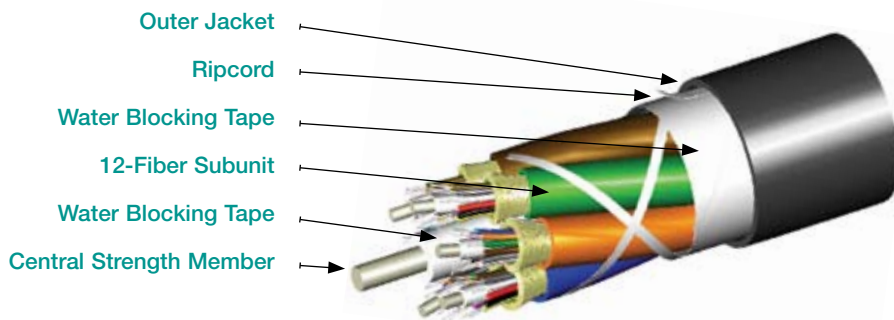
12-Fiber Subunit
Outer Diameter = 7.2 mm (0.28 in)



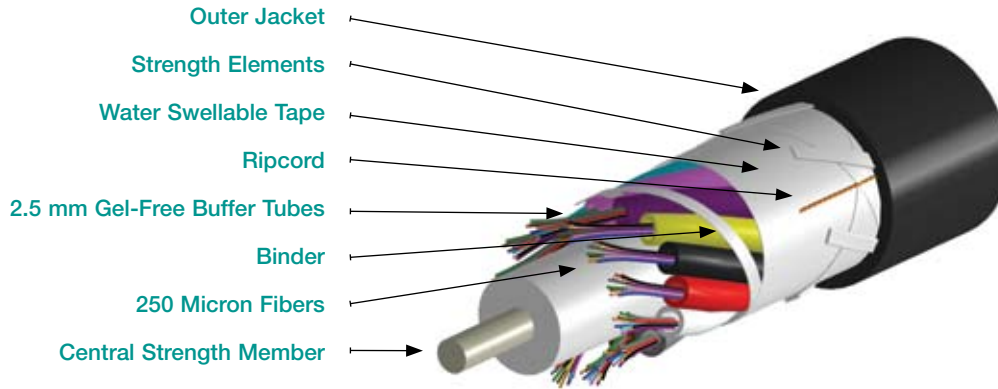
6-Fiber Subunit
Outer Diameter = 5.5 mm (0.22 in)



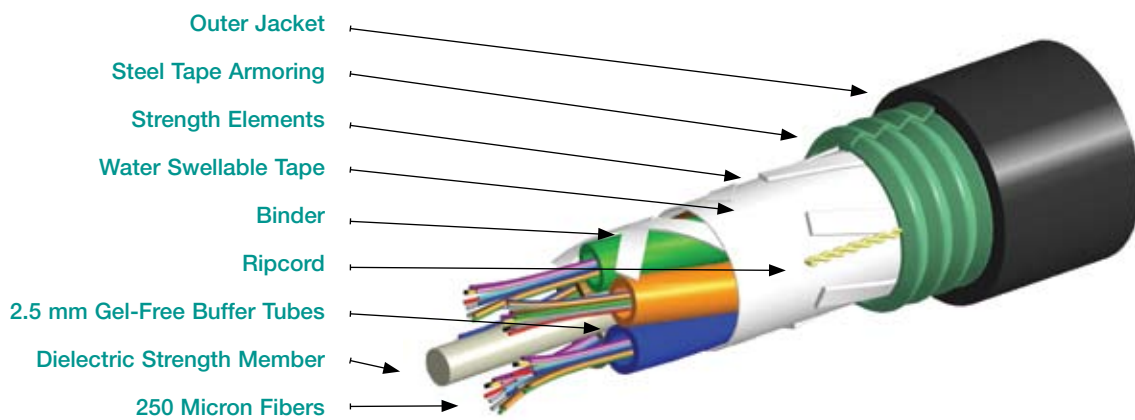
Indoor/Outdoor Tight Buffered Cables (Multi-Unit Z-DS, P-OD Series)



Outside Plant Stranded Loose Tube Cables All Dry (Dielectric D-LN Series)

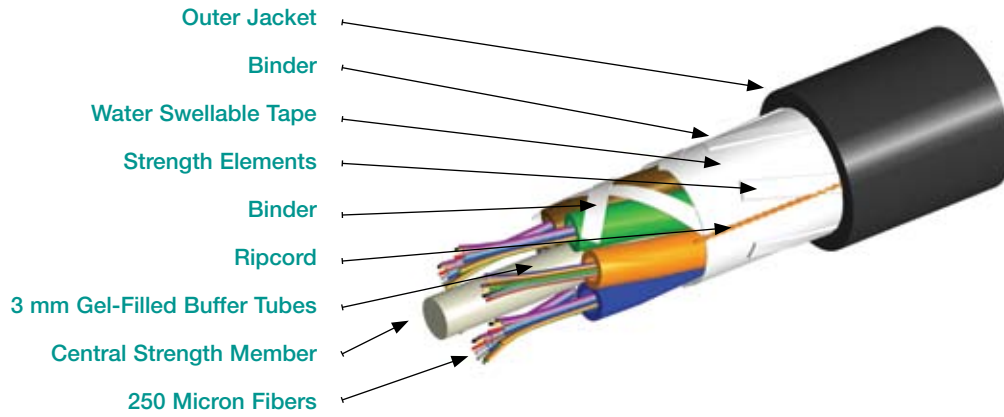


Outside Plant Stranded Loose Tube Cables All Dry (Metallic O-LA Series)

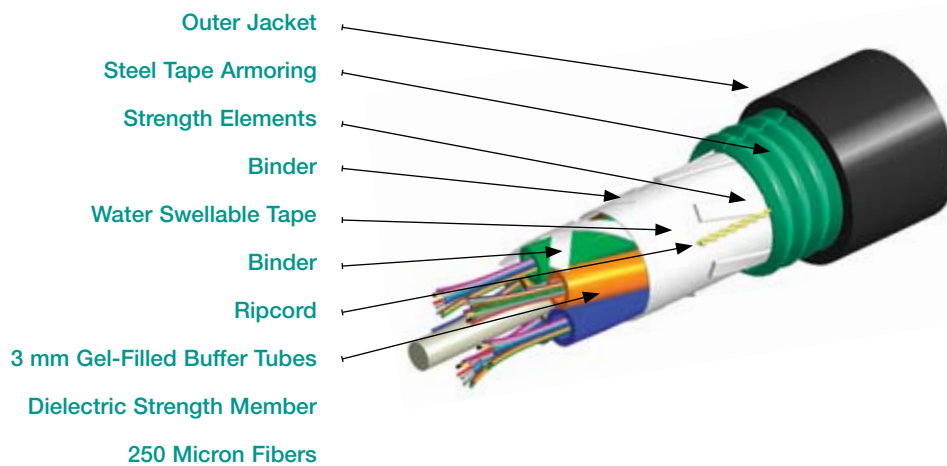


- Fiber Types & Reference
- Distribution Cables
- Indoor/Outdoor Cables
- Outside Plant Cables
- InstaPATCH Plus
- G2 Fiber Connectivity
- Additional Fiber Connectivity
- Tools & Consumables

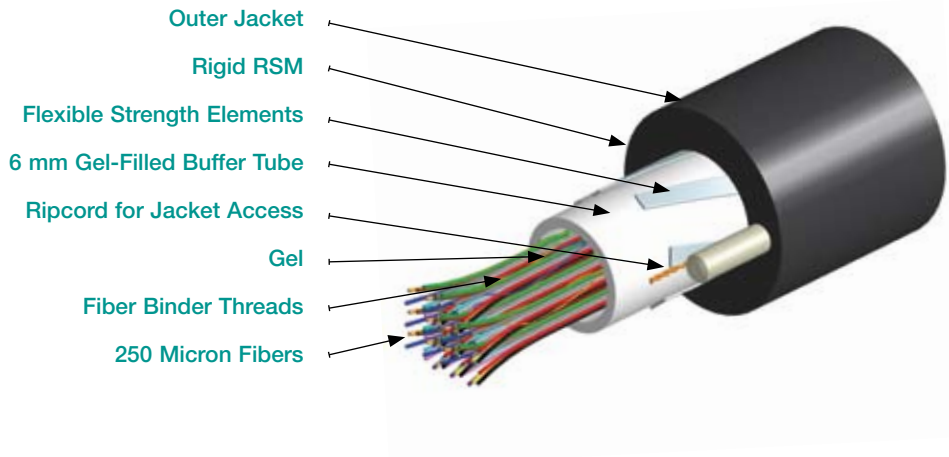
Outside Plant Stranded Loose Tube Cables (Dielectric O-LN Series)



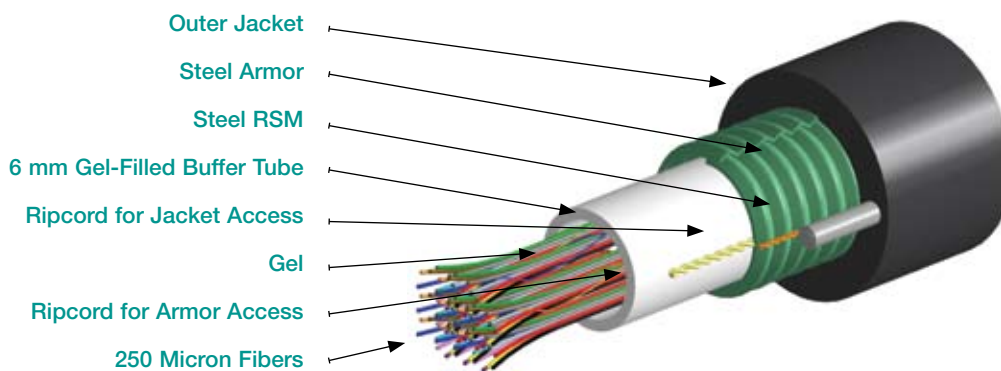
Outside Plant Stranded Loose Tube Cables (Metallic O-LA Series)



Outside Plant Central Tube Cables (Dielectric O-CN Series)



Outside Plant Central Tube Cables (Metallic O-CA Series)



Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPATCH Plus

G2 Fiber Connectivity

Additional Fiber Connectivity

Tools & Consumables

LazrSPEED® Solution Laser Optimized 50µm Multimode

Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPATCH Plus

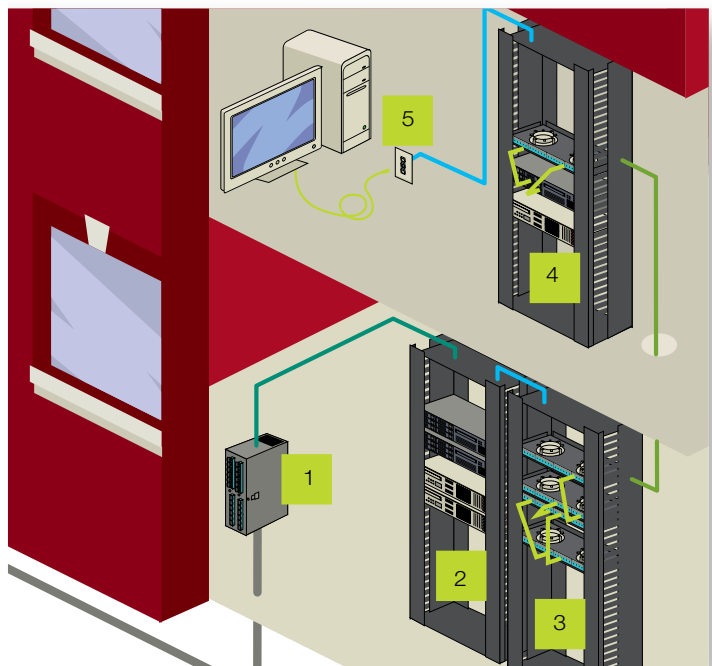
G2 Fiber Connectivity

Additional Fiber Connectivity

Tools & Consumables

- 1 Fiber optic LIU
 - 2 Racks and cabinets
 - 3 Equipment room:
-360 G2 modular shelf and panel shelf
 - 4 Telecom room:
-360 G2 modular shelf and panel shelf
 - 5 Faceplate/multimedia information outlet
- LazrSPEED outside plant cable
 - LazrSPEED indoor/outdoor cable
 - LazrSPEED indoor cable
 - LazrSPEED patch cord
 - LazrSPEED riser cable

LazrSPEED Solution



LazrSPEED® fiber is the perfect choice for new installations because it has been designed to support 10 Gbps up to 550 meter distances. This fully supports the vast majority of in-building distance requirements. The LazrSPEED Solution is flexible and supports all the current LANs from 10 Mbps to 1 Gbps. Gigabit ethernet is supported up to over 1 kilometer for 1000BASE-SX. A future upgrade to 10 Gbps can be easily accomplished by simply plugging in short wavelength (850 nm) 10 Gbps electronics in to the existing LazrSPEED channels up to 550 meters depending on LazrSPEED fiber type. The LazrSPEED Solution also enables dual speed 1 Gbps/10 Gbps ports, which allow less disruptive incremental upgrades of switches and servers. The LazrSPEED Solution supports very high speed data transmission by controlling differential mode delay (DMD) that results when light rays travelling along the various pathways (modes) arrive at the detector at different times. DMD can cause an optical signal to be detected as several different signals.

With the lowest multimode optical channel loss available and the breakthrough bandwidth performance, a LazrSPEED LC solution easily meets the gigabit ethernet standard and sets the pace for 10 Gbps support. This channel loss performance (0.17dB average loss for LC connections, 3.0 dB/km loss for cables at 850 nm) and bandwidth performance enable cost-effective 10 Gbps (OM4) networks as well as increased network reliability for gigabit applications. It is available in three versions:

LazrSPEED 550 (OM4)

- Meets and exceeds the next generation 50µm multimode fiber (OM4) specifications in standards
- Over 4,700 MHz-km laser bandwidth at 850 nm
- Designed to support low complexity 10 Gbps serial transmission to 550 meters
- Supports all serial and CWDM options for 10 Gbps ethernet
- Supports 1 Gbps ethernet up to 1.1 km
- Laser optimized
- Suitable for LANs from 10 Mbps to 10 Gbps

LazrSPEED 300 (OM3)

- Meets and exceeds the next generation 50µm multimode fiber (OM3) specifications in standards
- Over 2,000 MHz-km laser bandwidth at 850 nm
- Designed to support low complexity 10 Gbps serial transmission to 300 meters
- Supports all serial and CWDM options for 10 Gbps ethernet
- Supports 1 Gbps ethernet up to 1 km
- Laser optimized
- Suitable for LANs from 10 Mbps to 10 Gbps

LazrSPEED 150 (OM2+)

- Meets and exceeds the 50µm multimode fiber (OM2) specifications in standards
- Over 950 MHz-km laser bandwidth at 850 nm
- Designed to support low complexity 10 Gbps serial transmission to 150 meters
- Supports all serial and CWDM options for 10 Gbps ethernet
- Supports 1 Gbps ethernet up to 800 meters
- Laser optimized
- Suitable for LANs from 10 Mbps to 10 Gbps

LazrSPEED products include:

- Distribution Cable
- Indoor/Outdoor Cable
- Outside Plant Cable (where appropriate for the enterprise market)
- LC Connectors (SC or STII+ Connectors available for limited applications and connections)
- Splice and Termination Shelves
- Multimedia Outlets and Boxes
- Connectorized Patch Cords

Fiber Types & Reference



Distribution Cables



Indoor/Outdoor Cables



Outside Plant Cables



InstaPATCH Plus



G2 Fiber Connectivity



Additional Fiber Connectivity



Tools & Consumables



LazrSPEED® Specifications

Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPATCH Plus

G2 Fiber Connectivity

Additional Fiber Connectivity

Tools & Consumables

LazrSPEED 550/300/150

Laser Optimized 50 Micron Multimode Fiber

LazrSPEED 550 = OM4

LazrSPEED 300 = OM3

LazrSPEED 150 = OM2+

Physical Characteristics

Core Diameter	50.0 ± 2.5 µm
Cladding Diameter	125.0 ± 1.0 µm
Core/Clad Offset	≤ 1.0 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	100 kpsi (0.69 Gpa)
Coating Strip Force	0.3 - 2.0 lbf (1.3 - 8.9 N)
Dynamic Fatigue Parameter (nd)	≥ 18
Macrobending, max. (100 turns @ 75 mm mandrel)	0.50 dB max. @ 850 nm and 1300 nm

Optical Characteristics, Wavelength Specific

	850 nm	1300 nm
Max. Attenuation, Loose Tube Cable	3.0 dB/km	1.0 dB/km
Max. Attenuation, Tight Buffer Cable	3.0 dB/km	1.0 dB/km
Bandwidth, OFL	550: 3,500 MHz-km	500 MHz-km
	300: 1,500 MHz-km	500 MHz-km
	150: 700 MHz-km	500 MHz-km
Bandwidth, Laser	550: 4,700 MHz-km	500 MHz-km
	300: 2,000 MHz-km	500 MHz-km
	150: 950 MHz-km	500 MHz-km
Differential Mode Delay	550: Exceeds TIA-492AAAC-A (IEC-60793-2-10ed2)	0.88 ps/m
	300: Exceeds TIA-492AAAC-A (IEC-60793-2-10ed2)	0.88 ps/m
	150: 0.70 ps/m	0.88 ps/m
1 Gbps Ethernet Distance	550: 1,100 m	600 m
	300: 1,000 m	600 m
	150: 800 m	600 m
10 Gbps Ethernet Distance	550: 550 m	
	300: 300 m	
	150: 150 m	

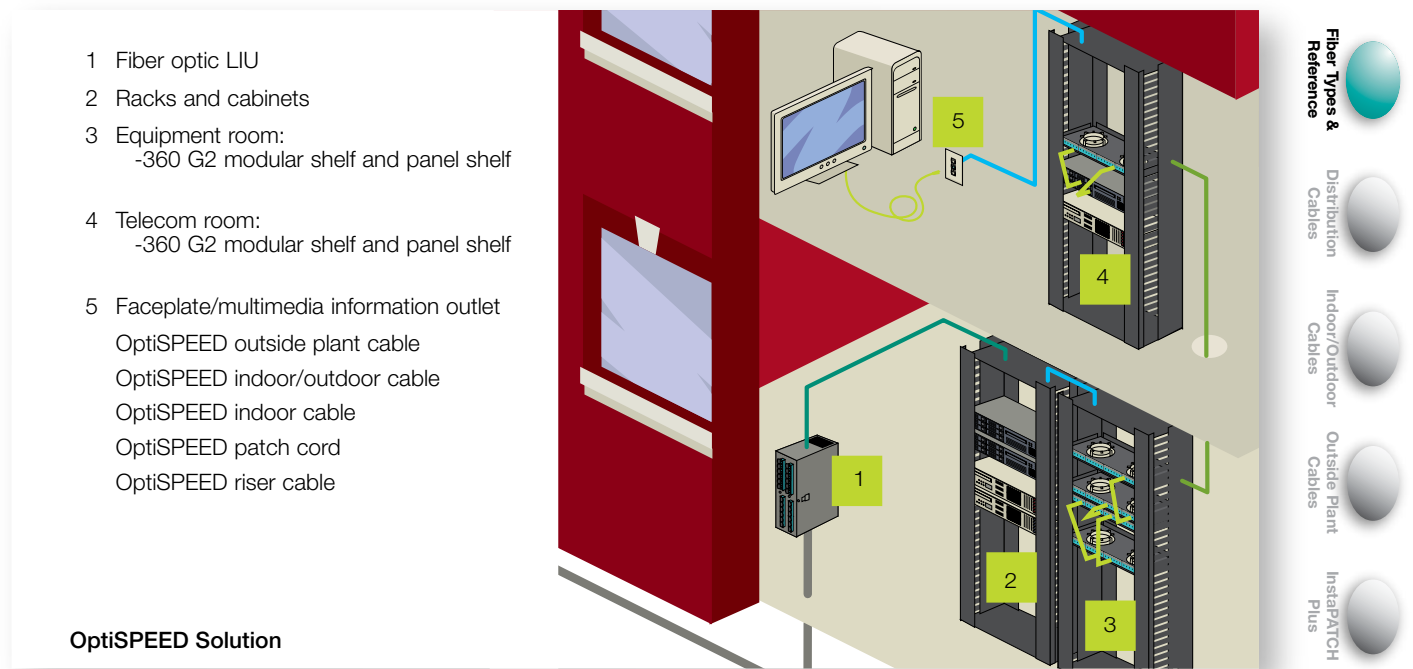
Optical Characteristics, General

Numerical Aperture	0.200 ± 0.015
Point Defects, Max.	0.15 dB
Zero Dispersion Wavelength	1295-1340 nm
Zero Dispersion Slope	0.105 ps/[km-nm-nm]
Backscatter Coefficient	-68.0/-75.7 dB @ 850/1300 nm
Index of Refraction	1.483/1.479 @ 850/1300 nm

Environmental Characteristics

Temperature Dependence -76°F to 185°F (-60°C to 85°C)	≤ 0.10 dB
Temperature Humidity Cycling 14°F to 185°F (-10°C to 85°C) up to 95% RH	≤ 0.10 dB
Water Immersion, 73.4°F (23°C)	≤ 0.10 dB
Heat Aging, 185°F (85°C)	≤ 0.10 dB

OptiSPEED® Solution 62.5µm Multimode



CommScope OptiSPEED® Solution was developed to provide a fiber optic solution that is the backbone for today's performance requirements. 62.5 micron multimode fiber provides high speed links to support signal transmission up to the TIA standard of 300 meters within a building and up to 2,000 meters or 2 kilometers within a campus for many of today's legacy LANs.

The OptiSPEED channel, including the low loss LC connector, supports the 1000BASE-SX Gbps ethernet LAN, up to 300 meters with 6 LC connections. The OptiSPEED Solution supports up to 600 meter for 1000BASE-LX, Gbps ethernet LAN applications. In addition, the OptiSPEED Solution supports 10 Gbps ethernet using CWDM 1,300 nm lasers to 300 meters.

In addition to LC connectors, the OptiSPEED Solution supports the duplex SC connector as well as the ST II+ connector although over restricted applications and number of connections. The LC is a small form factor connector that allows two LC connectors to fit in the space of a traditional connector such as the SC or ST II+. An extensive line of wall and rack mounted cabinets and telecommunication outlets for building entrance facilities, equipment rooms, telephone closets/floor distributors and work areas are available.

CommScope channels comprised exclusively of OptiSPEED multimode passive products, end-to-end, are capable of delivering up to 10 Gbps in accordance with application standards.

Features and Benefits:

- Standard multimode fiber
- Lowest multimode fiber channel loss available, up to 50% less than other systems
- Lowest loss small form factor connector available in the industry—LC connector

OptiSPEED products include:

- Distribution Cable
- Indoor/Outdoor Cable
- Outside Plant Cable (where appropriate for the enterprise market)
- LC connectors (SC or ST II+ connectors available for limited applications and connections)
- Splice and Termination Shelves
- Multimedia Outlets and Boxes
- Connectorized Patch Cords

OptiSPEED® Specifications

Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPATCH Plus

G2 Fiber Connectivity

Additional Fiber Connectivity

Tools & Consumables

OptiSPEED Optical Fiber

62.5 Micron, Multimode Fiber

Physical Characteristics

Core Diameter	62.5 ± 2.5 μm
Cladding Diameter	125.0 ± 1.0 μm
Core/Clad Offset	≤ 1.0 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	100 kpsi (0.69 Gpa)
Coating Strip Force	0.3 - 2.0 lbf (1.3 - 8.9 N)
Dynamic Fatigue Parameter (nd)	≥ 18
Macrobending, Max. (100 turns @ 75 mm mandrel)	0.50 dB max. @ 850 nm and 1,300 nm

Optical Characteristics, Wavelength Specific

	850 nm	1,300 nm
Max. Attenuation, Loose Tube Cable	3.0 dB/km	1.0 dB/km
Max. Attenuation, Tight Buffer Cable	3.4 dB/km	1.0 dB/km
Bandwidth, OFL	220 MHz-km	500 MHz-km
Group Refractive Index	1.496	1.491
1 Gb Ethernet Distance	300 m	550 m

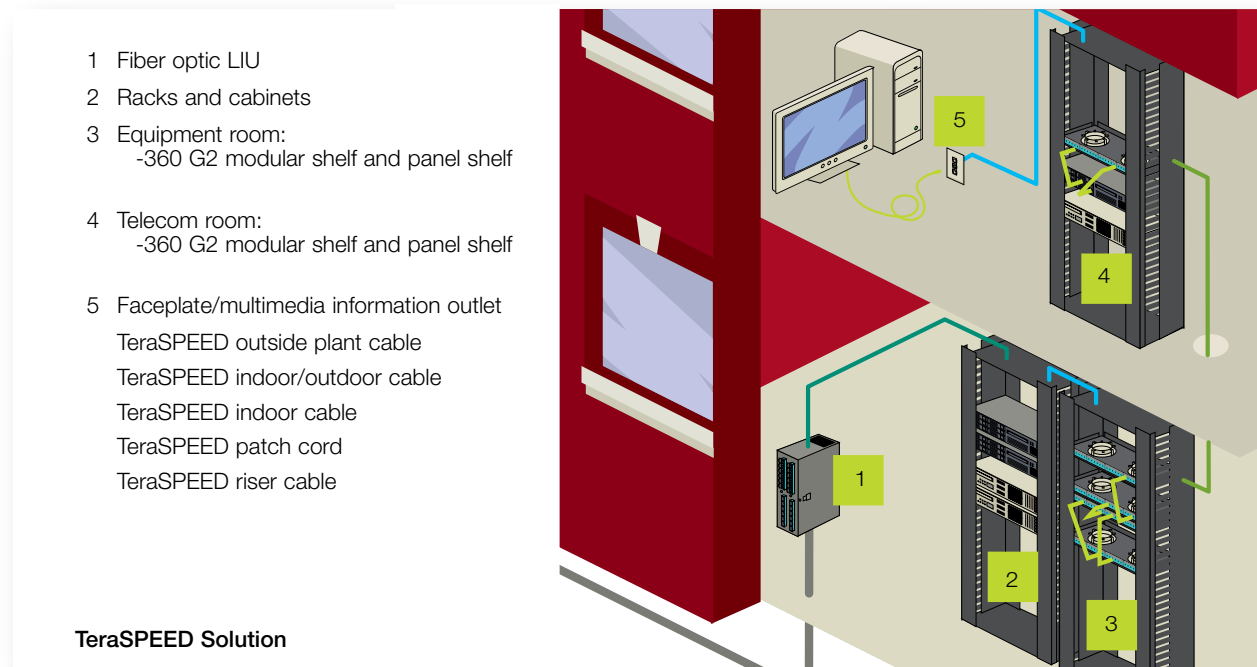
Optical Characteristics, General

Numerical Aperature	0.275 ± 0.015
Point Defects, Max.	0.15 dB
Zero Dispersion Wavelength	1,320-1,365 nm
Zero Dispersion Slope	0.11 ps/[km•nm²] from 1320-1348 nm
Backscatter Coefficient	-68.0/-75.7 dB @ 850/1300 nm
Index of Refraction	1.496/1.491 @ 850/1300 nm

Environmental Characteristics

Temperature Dependence -76°F to 185°F (-60°C to 85°C)	≤ 0.10 dB
Temperature Humidity Cycling 14°F to 185°F (-10°C to 85°C) up to 95% RH	≤ 0.20 dB
Water Immersion, 73.4°F (23°C)	≤ 0.20 dB
Heat Aging, 185°F (85°C)	≤ 0.20 dB

TeraSPEED® Solution Zero Water Peak Single-mode



CommScope TeraSPEED® Solution was developed to provide a fiber optic solution that is the metro/campus backbone for today's performance requirements. TeraSPEED cables provide the widest possible usable wavelength spectrum by eliminating the high loss caused by water impurities in the 1,400 nm region. With this 'water peak' eliminated, the entire spectrum from 1,260 nm to 1,620 nm is available, allowing for future expansion of data rates and additional services by the use of cost-effective coarse wavelength division multi-plexing (CWDM).

In addition to LC connectors, TeraSPEED Solution supports the duplex SC connector as well as the ST II+ connector. An extensive line of wall and rack mounted cabinets and telecommunication outlets for building entrance facilities, equipment rooms, telephone closets/floor distributors and work areas are available.

CommScope channels comprised exclusively of TeraSPEED single-mode passive products, end-to-end, are capable of delivering in excess of 10 Gbps in accordance with application standards.

Features and Benefits:

- Zero water peak single-mode fiber
- G.652.C/D compliant
- Lowest loss fiber available at 1,383 nm E-band
- Supports legacy single-mode equipment and applications
- 60% more usable wavelengths
- Maximizes support for lowest cost CWDM technology and delivers lowest cost path to future single-mode applications
- Lowest loss small form factor connector available in the industry—LC Connector

TeraSPEED products include:

- Distribution Cable
- Indoor/Outdoor Cable
- Outside Plant Cable (where appropriate for the enterprise market)
- LC Connectors (SC or ST II+ connectors available for limited applications and connections)
- Splice and Termination Shelves
- Multimedia Outlets and Boxes
- Connectorized Patch Cords

TeraSPEED® Specifications

Fiber Types & Reference

TeraSPEED Optical Fiber

Dispersion-Unshifted, Matched-Clad Single-mode Fiber

Distribution Cables

Physical Characteristics

Cladding Diameter	125.0 ± 0.7 μm
Core/Clad Offset	≤ 0.5 μm
Coating Diameter (Uncolored)	245 ± 10 μm
Coating Diameter (Colored)	254 ± 7 μm
Coating/Cladding Concentricity Error, Max.	12 μm
Clad Non-Circularity	≤ 1%

Indoor/Outdoor Cables

Mechanical Characteristics

Proof Test	100 kpsi (0.69 Gpa)
Coating Strip Force	0.3 - 2.0 lbf (1.3 - 8.9 N)
Fiber Curl	≥ 4 m
Dynamic Fatigue Parameter (nd)	≥ 18
Macrobending, Max. (100 turns)	0.05 dB (1,310/1,550 nm @ 50 mm) 0.05 dB (1,625 nm @ 60 mm)
Macrobending, Max. (1 turn @ 32 mm mandrel)	0.05 dB @ 1,550 nm

Outside Plant Cables

Optical Characteristics, Wavelength Specific

	1310 nm	1385 nm	1550 nm
Max. Attenuation, Loose Tube Cable	0.34 dB/km	0.31 dB/km	0.22 dB/km
Max. Attenuation, Tight Buffer Cable	0.50 dB/km	0.50 dB/km	0.50 dB/km
Mode Field Diameter	9.2 ± 0.3 μm	9.6 ± 0.6 μm	10.4 ± 0.5 μm
Group Refractive Index	1.467	1.468	1.468
Dispersion, Max.	3.5 ps/(nm-km) from 1,285 to 1,330 nm		18 ps/(nm-km)

InstaPATCH Plus

G2 Fiber Connectivity

Optical Characteristics, General

Point Defects, Max.	0.10 dB
Cut-off Wavelength	≤ 1260
Zero Dispersion Wavelength	1,302-1,322 nm
Zero Dispersion Slope, Max.	0.090 ps/[km-nm-nm]
Polarization Mode Dispersion	≤ 0.06 ps/sqrt (km)
Link Design Value	
Backscatter Coefficient	-79.6/-82.1 dB @ 1310/1550 nm
Index of Refraction	1.467/1.468 @ 1310/1550 nm

Additional Fiber Connectivity

Tools & Consumables

Environmental Characteristics

Temperature Dependence -76°F to 185°F (-60°C to 85°C)	≤ 0.05 dB
Temperature Humidity Cycling 14°F to 185°F (-10°C to 85°C) up to 95% RH	≤ 0.05 dB
Water Immersion, 73.4°F (23°C)	≤ 0.05 dB
Heat Aging, 185°F (85°C)	≤ 0.05 dB

Distribution Cables

Riser, Plenum and LSZH Rated Designs for Indoor Applications

CommScope Distribution (or Indoor) 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.

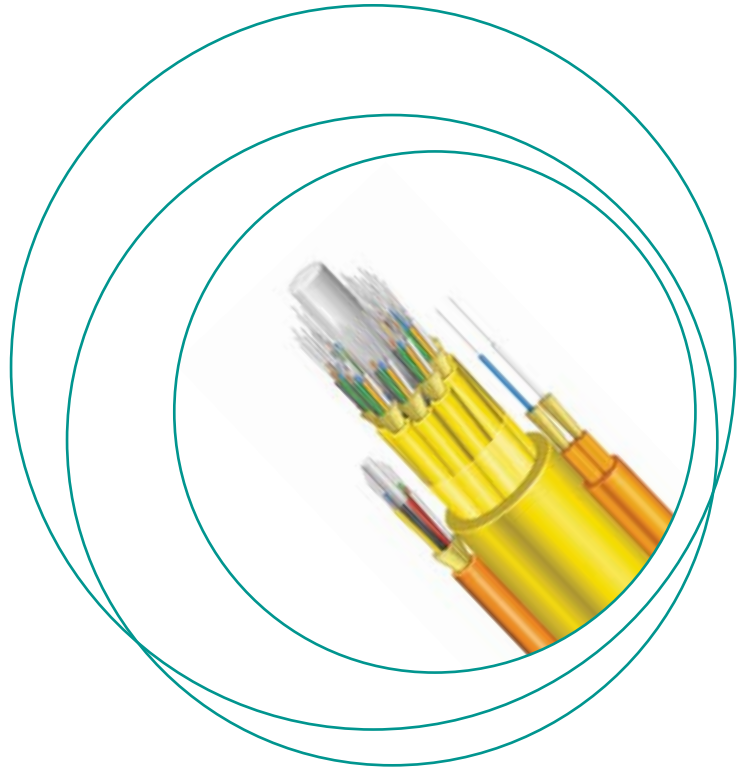
Our Distribution cables are a perfect example of this achievement. Constructions are engineered to be up to 30% smaller in diameter and up to 50% lighter than comparable products. The result is a compact cable that installs and terminates easily.

All of CommScope's building fiber optic cables meet or exceed performance standards as established by Telcordia GR-409, ANSI TIA-568-C.3, 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.



- Fiber Types & Reference
- Distribution Cables**
- Indoor/Outdoor Cables
- Outside Plant Cables
- InstaPATCH Plus
- G2 Fiber Connectivity
- Additional Fiber Connectivity
- Tools & Consumables

Riser, Plenum and LSZH Distribution Products



FastFiber® products available in 50 micron, 62.5 micron and single-mode

- 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



Riser Distribution

Product Number	Outer Diameter inch/mm	Min. Bend Radius		Max. Tensile Load		Weight		Material ID
		Loaded inch/cm	Unloaded inch/cm	Short Term lbs./Newton	Long Term lbs./Newton	lbs./ 1000'	kg/ 1000'	
R-006-DS-6F-FSUOR	.20/5.1	4.1/10.3	2.0/5.1	300/1335	90/400	15	22	700010176
R-012-DS-6F-FSUOR	.24/6.0	4.7/12.1	2.4/6.0	300/1335	90/400	22	32	700010168
R-024-DS-6F-FSUOR	.33/8.4	6.6/16.7	3.3/8.4	300/1335	90/400	38	56	760125005
R-012-DS-8W-FSUYL	.24/6.0	4.7/12.1	2.4/6.0	300/1335	90/400	22	32	760004440

Plenum Distribution

Product Number	Outer Diameter inch/mm	Min. Bend Radius		Max. Tensile Load		Weight		Material ID
		Loaded inch/cm	Unloaded inch/cm	Short Term lbs./Newton	Long Term lbs./Newton	lbs./ 1000'	kg/ 1000'	
P-006-DS-6F-FSUOR	.19/4.8	3.8/9.7	1.9/4.8	300/1335	90/400	15	22	700009525
P-012-DS-6F-FSUOR	.23/5.8	4.6/11.7	2.3/5.8	300/1335	90/400	21	31	700009400
P-024-DS-6F-FSUOR	.33/8.5	6.7/16.9	3.3/8.5	300/1335	90/400	47	70	760018655
P-006-DS-8W-FSUYL	.19/4.8	3.8/9.7	1.9/4.8	300/1335	90/400	15	22	760004333
P-012-DS-8W-FSUYL	.23/5.8	4.6/11.7	2.3/5.8	300/1335	90/400	21	31	760004358
P-024-DS-8W-FSUYL	.33/8.5	6.7/16.9	3.3/8.5	300/1335	90/400	47	70	760018630
P-012-DS-5M-FSUAQ	.23/5.8	4.6/11.7	2.3/5.8	300/1335	90/400	21	31	700009756
P-006-DS-5L-FSUAQ	.19/4.8	3.8/9.7	1.9/4.8	300/1335	90/400	15	22	700009772
P-012-DS-5L-FSUAQ	.23/5.8	4.6/11.7	2.3/5.8	300/1335	90/400	21	31	700009731
P-006-DS-5M-FSUAQ	.19/4.8	3.8/9.7	1.9/4.8	300/1335	90/400	15	22	700009798

FastFiber® Low Smoke Zero Halogen



Product Number	Outer Diameter inch/mm	Min. Bend Radius		Max. Tensile Load		Weight		Material ID
		Loaded inch/cm	Unloaded inch/cm	Short Term lbs./Newton	Long Term lbs./Newton	lbs./ 1000'	kg/ 1000'	
Z-012-DS-6F-FSUBK	.28/7.2	5.6/14.2	2.8/7.1	400/1780	120/534	33	49	700211279

Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPATCH Plus

G2 Fiber Connectivity

Additional Fiber Connectivity

Tools & Consumables

FastFiber® Interlocking Armored Cables

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



Product Number	Outer Diameter inch/mm	Min. Bend Radius		Max. Tensile Load		Weight		Material ID
		Loaded inch/cm	Unloaded inch/cm	Short Term lbs./Newton	Long Term lbs./Newton	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	760127803
P-006-DZ-6F-FSUOR	.51/12.8	10.1/25.7	7.1/18.0	300/1335	90/400	95	142	760127753
P-012-DZ-6F-FSUOR	.51/12.8	10.1/25.7	7.1/18.0	300/1335	90/400	101	151	760127761
P-012-DZ-5L-FSUAQ	.51/12.8	10.1/25.7	7.1/18.0	300/1335	90/400	101	151	760127647

Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPATCH Plus

G2 Fiber Connectivity

Additional Fiber Connectivity

Tools & Consumables

Riser and LSZH Single Unit Distribution

Meets critical NEC/CEC riser (OFNR) safety standards
Numbered subunits and color-coded fibers help ease installation



Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius		Max. Tensile Load		Weight		Material ID
			Loaded inch/cm	Unloaded inch/cm	Short Term lbs./Newton	Long Term lbs./Newton	lbs./1000'	kg/1000'	
6	R-006-DS-5K-FSUAQ	.20/5.1	3.8/9.5	1.9/4.8	300/1335	90/400	15.2	23	760012104
12	R-012-DS-5K-FSUAQ	.24/6.0	4.7/12.1	2.4/6.0	300/1335	90/400	21.7	32.2	760012112
24	R-024-DS-5K-FSUAQ	.33/8.4	6.6/16.7	3.3/8.4	300/1335	90/400	37.9	56.4	760018564
6	R-006-DS-5L-FSUAQ	.20/5.1	3.8/9.5	1.9/4.8	300/1335	90/400	15.2	23	700208143
12	R-012-DS-5L-FSUAQ	.24/6.0	4.7/12.1	2.4/6.0	300/1335	90/400	21.7	32.2	700208150
24	R-024-DS-5L-FSUAQ	.33/8.4	6.6/16.7	3.3/8.4	300/1335	90/400	37.9	56.4	760018556
6	R-006-DS-5M-FSUAQ	.20/5.1	3.8/9.5	1.9/4.8	300/1335	90/400	15.2	23	700203078
12	R-012-DS-5M-FSUAQ	.24/6.0	4.7/12.1	2.4/6.0	300/1335	90/400	21.7	32.2	700203086
24	R-024-DS-5M-FSUAQ	.33/8.4	6.6/16.7	3.3/8.4	300/1335	90/400	37.9	56.4	760018549
6	R-006-DS-8W-FSUYL	.20/5.1	3.8/9.5	1.9/4.8	300/1335	90/400	15.2	23	760004424
12	R-012-DS-8W-FSUYL	.24/6.0	4.7/12.1	2.4/6.0	300/1335	90/400	21.7	32.2	760004440
24	R-024-DS-8W-FSUYL	.33/8.4	6.6/16.7	3.3/8.4	300/1335	90/400	37.9	56.4	760018515
6	R-006-DS-6F-FSUSL	.20/5.1	3.8/9.5	1.9/4.8	300/1335	90/400	15.2	23	700009509
12	R-012-DS-6F-FSUSL	.24/6.0	4.7/12.1	2.4/6.0	300/1335	90/400	21.7	32.2	700009384
24	R-024-DS-6F-FSUSL	.33/8.4	6.6/16.7	3.3/8.4	300/1335	90/400	37.9	56.4	760018531
6	R-006-DS-6F-FSUOR	.20/5.1	3.8/9.5	1.9/4.8	300/1335	90/400	15.2	23	700010176
12	R-012-DS-6F-FSUOR	.24/6.0	4.7/12.1	2.4/6.0	300/1335	90/400	21.7	32.2	700010168
24	R-024-DS-6F-FSUOR	.33/8.4	6.6/16.7	3.3/8.4	300/1335	90/400	37.9	56.4	760125005
6	N-006-DS-5K-FSUAQ	.20/5.1	3.8/9.5	1.9/4.8	300/1335	90/400	15.2	23	760012153
12	N-012-DS-5K-FSUAQ	.24/6.0	4.7/12.1	2.4/6.0	300/1335	90/400	21.7	32.2	760012161
24	N-024-DS-5K-FSUAQ	.33/8.4	6.6/16.7	3.3/8.4	300/1335	90/400	37.9	56.4	760019117
6	N-006-DS-5L-FSUAQ	.20/5.1	3.8/9.5	1.9/4.8	300/1335	90/400	15.2	23	700009780
12	N-012-DS-5L-FSUAQ	.24/6.0	4.7/12.1	2.4/6.0	300/1335	90/400	21.7	32.2	700009749
24	N-024-DS-5L-FSUAQ	.33/8.4	6.6/16.7	3.3/8.4	300/1335	90/400	37.9	56.4	760019109
6	N-006-DS-5M-FSUAQ	.20/5.1	3.8/9.5	1.9/4.8	300/1335	90/400	15.2	23	700009806
12	N-012-DS-5M-FSUAQ	.24/6.0	4.7/12.1	2.4/6.0	300/1335	90/400	21.7	32.2	700009764
24	N-024-DS-5M-FSUAQ	.33/8.4	6.6/16.7	3.3/8.4	300/1335	90/400	37.9	56.4	760019091
6	N-006-DS-8W-FSUYL	.20/5.1	3.8/9.5	1.9/4.8	300/1335	90/400	15.2	23	760004242
12	N-012-DS-8W-FSUYL	.24/6.0	4.7/12.1	2.4/6.0	300/1335	90/400	21.7	32.2	760004267
24	N-024-DS-8W-FSUYL	.33/8.4	6.6/16.7	3.3/8.4	300/1335	90/400	37.9	56.4	760019091
6	N-006-DS-6F-FSUOR	.20/5.1	3.8/9.5	1.9/4.8	300/1335	90/400	15.2	23	760008469
12	N-012-DS-6F-FSUOR	.24/6.0	4.7/12.1	2.4/6.0	300/1335	90/400	21.7	32.2	760008444
24	N-024-DS-6F-FSUOR	.33/8.4	6.6/16.7	3.3/8.4	300/1335	90/400	37.9	56.4	760001903

Single-mode/Multimode R-XXX-DS-CM-FSUXX/AAaaa/BBbbb Custom design - sizes/specs will vary depending on fiber count
Composite (4-144 Fiber)

Variables in the Product Number:

XXX = Total Fiber Count

XY = Fiber Grade

5K LazrSPEED 550, 50µm, multimode, OM4
5L LazrSPEED 300, 50µm, multimode, OM3
5M LazrSPEED 150, 50µm, multimode, OM2+

6F OptiSPEED 62.5/125µm, multimode (OM1)
8W TeraSPEED (single-mode)

ZZ = Standard Jacket Color

OR Orange - Multimode or composite containing multimode
AQ Aqua - LazrSPEED or composite containing multimode
SL Slate - Multimode or composite containing multimode

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.

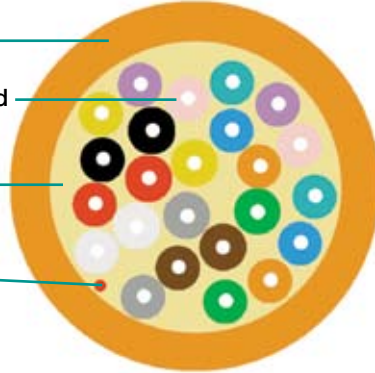
Riser Distribution Single Unit Cables (24 Fiber Version Shown)

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

Fiber Types &
Reference

Distribution
Cables

Indoor/Outdoor
Cables

Outside Plant
Cables

InstaPATCH
Plus

G2 Fiber
Connectivity

Additional Fiber
Connectivity

Tools &
Consumables

Riser and LSZH Multi Unit Distribution

Meets critical NEC/CEC riser (OFNR) safety standards

Fiber Types & Reference
 Distribution Cables
 Indoor/Outdoor Cables
 Outside Plant Cables
 InstaPATCH Plus
 G2 Fiber Connectivity
 Additional Fiber Connectivity
 Tools & Consumables

Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius		Max. Tensile Load		Weight		Material ID
			Loaded inch/cm	Unloaded inch/cm	Short Term lbs./Newton	Long Term lbs./Newton	lbs./ 1000'	kg/ 1000'	
48	R-048-DS-5K-FMUQAQ	.63/16.1	12.7/32.2	6.3/16.1	800/3560	240/1068	143	212	760026849
72	R-072-DS-5K-FMUQAQ	.79/20.0	15.8/40.1	7.9/20.0	1000/4450	300/1335	232	345	760026856
144	R-144-DS-5K-FMUQAQ	1.03/26.1	20.5/52.2	10.3/26.1	1000/4450	300/1335	350	522	760026872
48	R-048-DS-5L-FMUQAQ	.63/16.1	12.7/32.2	6.3/16.1	800/3560	240/1068	143	212	700208218
72	R-072-DS-5L-FMUQAQ	.79/20.0	15.8/40.1	7.9/20.0	1000/4450	300/1335	232	345	700208226
144	R-144-DS-5L-FMUQAQ	1.03/26.1	20.5/52.2	10.3/26.1	1000/4450	300/1335	350	522	760018861
48	R-048-DS-5M-FMUQAQ	.63/16.1	12.7/32.2	6.3/16.1	800/3560	240/1068	143	212	700203110
72	R-072-DS-5M-FMUQAQ	.79/20.0	15.8/40.1	7.9/20.0	1000/4450	300/1335	232	345	700203128
144	R-144-DS-5M-FMUQAQ	1.03/26.1	20.5/52.2	10.3/26.1	1000/4450	300/1335	350	522	760024810
48	R-048-DS-8W-FMUUYL	.63/16.1	12.7/32.2	6.3/16.1	800/3560	240/1068	143	212	760004473
72	R-072-DS-8W-FMUUYL	.79/20.0	15.8/40.1	7.9/20.0	1000/4450	300/1335	232	345	760004481
144	R-144-DS-8W-FMUUYL	1.03/26.1	20.5/52.2	10.3/26.1	1000/4450	300/1335	350	522	760018887
48	R-048-DS-6F-FMUSL	.63/16.1	12.7/32.2	6.3/16.1	800/3560	240/1068	143	212	700009087
72	R-072-DS-6F-FMUSL	.79/20.0	15.8/40.1	7.9/20.0	1000/4450	300/1335	232	345	700008998
144	R-144-DS-6F-FMUSL	1.03/26.1	20.5/52.2	10.3/26.1	1000/4450	300/1335	350	522	760055046
48	R-048-DS-6F-FMUOR	.63/16.1	12.7/32.2	6.3/16.1	800/3560	240/1068	143	212	760125021
72	R-072-DS-6F-FMUOR	.79/20.0	15.8/40.1	7.9/20.0	1000/4450	300/1335	232	345	760125047
144	R-144-DS-6F-FMUOR	1.03/26.1	20.5/52.2	10.3/26.1	1000/4450	300/1335	350	522	760125054
48	N-048-DS-5L-FMUQAQ	.63/16.1	12.7/32.2	6.3/16.1	800/3560	240/1068	143	212	700211121
72	N-072-DS-5L-FMUQAQ	.79/20.0	15.8/40.1	7.9/20.0	1000/4450	300/1335	232	345	700211139
48	N-048-DS-5M-FMUQAQ	.63/16.1	12.7/32.2	6.3/16.1	800/3560	240/1068	143	212	700211089
72	N-072-DS-5M-FMUQAQ	.79/20.0	15.8/40.1	7.9/20.0	1000/4450	300/1335	232	345	700211097
48	N-048-DS-8W-FMUUYL	.63/16.1	12.7/32.2	6.3/16.1	800/3560	240/1068	143	212	760004291
72	N-072-DS-8W-FMUUYL	.79/20.0	15.8/40.1	7.9/20.0	1000/4450	300/1335	232	345	760004309
48	N-048-DS-6F-FMUOR	.63/16.1	12.7/32.2	6.3/16.1	800/3560	240/1068	143	212	700009103
72	N-072-DS-6F-FMUOR	.79/20.0	15.8/40.1	7.9/20.0	1000/4450	300/1335	232	345	700009012

Single-mode/Multimode Composite (48-144 Fiber) R-XXX-DS-CM-FMUZZ/AAaaa/BBbbb Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count

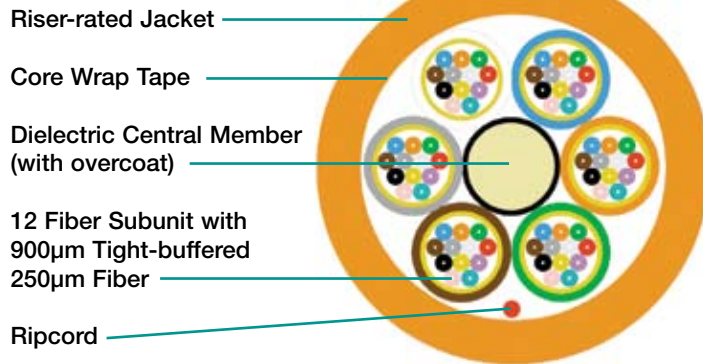
XY = Fiber Grade	5K LazrSPEED 550, 50µm, multimode, OM4	6F OptiSPEED 62.5/125µm, multimode (OM1)
	5L LazrSPEED 300, 50µm, multimode, OM3	8W TeraSPEED (single-mode)
	5M LazrSPEED 150, 50µm, multimode, OM2+	

ZZ = Standard Jacket Color	OR Orange - Multimode or composite containing multimode	YL Yellow - Single-mode or composite containing single-mode
	AQ Aqua - LazrSPEED or composite containing multimode	Minimum order required for special colors.
	SL Slate - Multimode or composite containing multimode	

For Composites Only	aaa is replaced with single-mode fiber count	bbb is replaced by multimode fiber count
	AA is replaced with single-mode type	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 Cables (72 and 12 Fiber Versions Shown)



Riser-rated Jacket

Core Wrap Tape

Dielectric Central Member
(with overcoat)

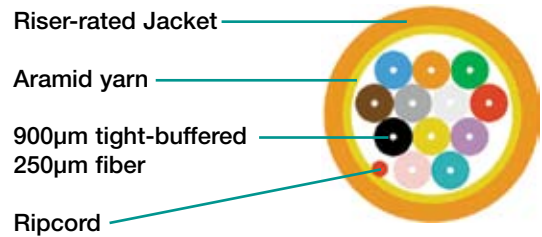
12 Fiber Subunit with
900µm Tight-buffered
250µm Fiber

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

Fiber Types &
Reference

Distribution
Cables

Indoor/Outdoor
Cables

Outside Plant
Cables

InstaPATCH
Plus

G2 Fiber
Connectivity

Additional Fiber
Connectivity

Tools &
Consumables

Plenum Single Unit Distribution

Meets critical NEC/CEC plenum (OFNP) safety standards
 Numbered subunits and color-coded fibers help ease installation



Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius		Max. Tensile Load		Weight		Material ID
			Loaded inch/cm	Unloaded inch/cm	Short Term lbs./Newton	Long Term lbs./Newton	lbs./1000'	kg/1000'	
6	P-006-DS-5K-FSUAQ	.19/4.8	3.8/9.5	1.9/4.8	300/1335	90/400	15.1	22.5	760012138
12	P-012-DS-5K-FSUAQ	.23/5.8	4.6/11.7	2.3/5.8	300/1335	90/400	20.8	30.9	760006411
24	P-024-DS-5K-FSUAQ	.33/8.5	6.7/16.9	3.3/8.5	300/1335	90/400	47.3	70.4	760018697
6	P-006-DS-5L-FSUAQ	.19/4.8	3.8/9.5	1.9/4.8	300/1335	90/400	15.1	22.5	700009772
12	P-012-DS-5L-FSUAQ	.23/5.8	4.6/11.7	2.3/5.8	300/1335	90/400	20.8	30.9	700009731
24	P-024-DS-5L-FSUAQ	.33/8.5	6.7/16.9	3.3/8.5	300/1335	90/400	47.3	70.4	760018689
6	P-006-DS-5M-FSUAQ	.19/4.8	3.8/9.5	1.9/4.8	300/1335	90/400	15.1	22.5	700009798
12	P-012-DS-5M-FSUAQ	.23/5.8	4.6/11.7	2.3/5.8	300/1335	90/400	20.8	30.9	700009756
24	P-024-DS-5M-FSUAQ	.33/8.5	6.7/16.9	3.3/8.5	300/1335	90/400	47.3	70.4	760018761
6	P-006-DS-8W-FSUYL	.19/4.8	3.8/9.5	1.9/4.8	300/1335	90/400	15.1	22.5	760004333
12	P-012-DS-8W-FSUYL	.23/5.8	4.6/11.7	2.3/5.8	300/1335	90/400	20.8	30.9	760004358
24	P-024-DS-8W-FSUYL	.33/8.5	6.7/16.9	3.3/8.5	300/1335	90/400	47.3	70.4	760018630
6	P-006-DS-6F-FSUSL	.19/4.8	3.8/9.5	1.9/4.8	300/1335	90/400	15.1	22.5	700009517
12	P-012-DS-6F-FSUSL	.23/5.8	4.6/11.7	2.3/5.8	300/1335	90/400	20.8	30.9	700009392
24	P-024-DS-6F-FSUSL	.33/8.5	6.7/16.9	3.3/8.5	300/1335	90/400	47.3	70.4	760018663
6	P-006-DS-6F-FSUOR	.19/4.8	3.8/9.5	1.9/4.8	300/1335	90/400	15.1	22.5	700009525
12	P-012-DS-6F-FSUOR	.23/5.8	4.6/11.7	2.3/5.8	300/1335	90/400	20.8	30.9	700009400
24	P-024-DS-6F-FSUOR	.33/8.5	6.7/16.9	3.3/8.5	300/1335	90/400	47.3	70.4	760018655

Single-mode/Multimode Composite (6-24 Fiber) P-XXX-DS-CM-FSUXX/AAaaa/BBbbb Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count

XY = Fiber Grade

5K LazrSPEED 550, 50µm, multimode, OM4
5L LazrSPEED 300, 50µm, multimode, OM3
5M LazrSPEED 150, 50µm, multimode, OM2+

6F OptiSPEED 62.5/125µm, multimode (OM1)
8W TeraSPEED (single-mode)

ZZ = Standard Jacket Color

OR Orange - Multimode or composite containing multimode
AQ Aqua - LazrSPEED or composite containing multimode
SL Slate - Multimode or composite containing multimode

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.

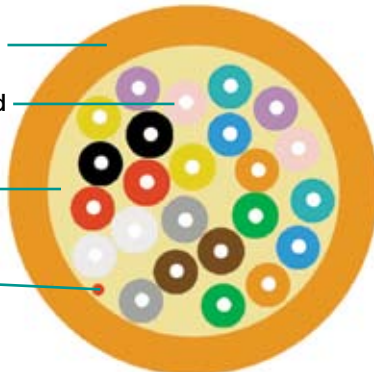
Plenum Distribution Single Unit Cables (24 Fiber Version Shown)

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

Plenum Multi Unit Distribution

Meets critical NEC/CEC plenum (OFNP) safety standards

Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius		Max. Tensile Load		Weight		Material ID
			Loaded inch/cm	Unloaded inch/cm	Short Term lbs./Newton	Long Term lbs./Newton	lbs./ 1000'	kg/ 1000'	
48	P-048-DS-5K-FMUAQ	.59/15.1	11.9/30.2	5.9/15.1	800/3560	240/1068	138	205	760024554
72	P-072-DS-5K-FMUAQ	.75/19.1	15.1/38.2	7.5/19.1	1000/4450	300/1335	237	353	760024562
144	P-144-DS-5K-FMUAQ	.97/24.8	19.5/49.5	9.7/24.8	1000/4450	300/1335	357	531	760024869
48	P-048-DS-5L-FMUAQ	.59/15.1	11.9/30.2	5.9/15.1	800/3560	240/1068	138	205	700211147
72	P-072-DS-5L-FMUAQ	.75/19.1	15.1/38.2	7.5/19.1	1000/4450	300/1335	237	353	700211154
144	P-144-DS-5L-FMUAQ	.97/24.8	19.5/49.5	9.7/24.8	1000/4450	300/1335	357	531	760018879
48	P-048-DS-5M-FMUAQ	.59/15.1	11.9/30.2	5.9/15.1	800/3560	240/1068	138	205	700211105
72	P-072-DS-5M-FMUAQ	.75/19.1	15.1/38.2	7.5/19.1	1000/4450	300/1335	237	353	700211113
144	P-144-DS-5M-FMUAQ	.97/24.8	19.5/49.5	9.7/24.8	1000/4450	300/1335	357	531	760024836
48	P-048-DS-8W-FMUYL	.59/15.1	11.9/30.2	5.9/15.1	800/3560	240/1068	138	205	760004382
72	P-072-DS-8W-FMUYL	.75/19.1	15.1/38.2	7.5/19.1	1000/4450	300/1335	237	353	760004390
144	P-144-DS-8W-FMUYL	.97/24.8	19.5/49.5	9.7/24.8	1000/4450	300/1335	357	531	760018895
48	P-048-DS-6F-FMUSL	.59/15.1	11.9/30.2	5.9/15.1	800/3560	240/1068	138	205	700009095
72	P-072-DS-6F-FMUSL	.75/19.1	15.1/38.2	7.5/19.1	1000/4450	300/1335	237	353	700009004
144	P-144-DS-6F-FMUSL	.97/24.8	19.5/49.5	9.7/24.8	1000/4450	300/1335	357	531	760032821
48	P-048-DS-6F-FMUOR	.59/15.1	11.9/30.2	5.9/15.1	800/3560	240/1068	138	205	760124834
72	P-072-DS-6F-FMUOR	.75/19.1	15.1/38.2	7.5/19.1	1000/4450	300/1335	237	353	760028050
144	P-144-DS-6F-FMUOR	.97/24.8	19.5/49.5	9.7/24.8	1000/4450	300/1335	357	531	760124859

Single-mode/Multimode Composite (48-144 Fiber) P-XXX-DS-CM-FMUXX/AAaaa/BBbbb Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count

XY = Fiber Grade

5K LazrSPEED 550, 50µm, multimode, OM4
5L LazrSPEED 300, 50µm, multimode, OM3
5M LazrSPEED 150, 50µm, multimode, OM2+

6F OptiSPEED 62.5/125µm, multimode (OM1)
8W TeraSPEED (single-mode)

ZZ = Standard Jacket Color

OR Orange - Multimode or composite containing multimode
AQ Aqua - LazrSPEED or composite containing multimode
SL Slate - Multimode or composite containing multimode

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 Cables

(72 and 12 Fiber Versions Shown)

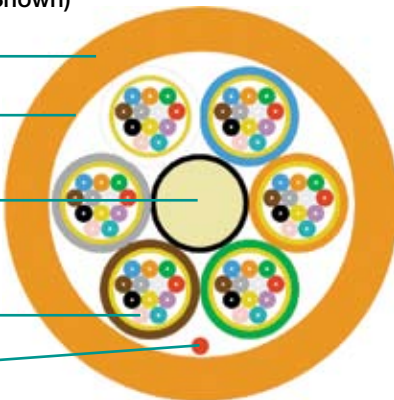
Plenum-rated Jacket

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

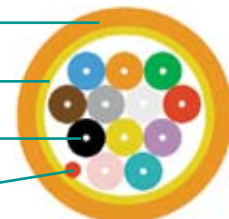
12 Fiber Unit

Plenum-rated Jacket

Aramid yarn

900µm tight-buffered
250µm fiber

Ripcord



Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPATCH Plus

G2 Fiber Connectivity

Additional Fiber Connectivity

Tools & Consumables

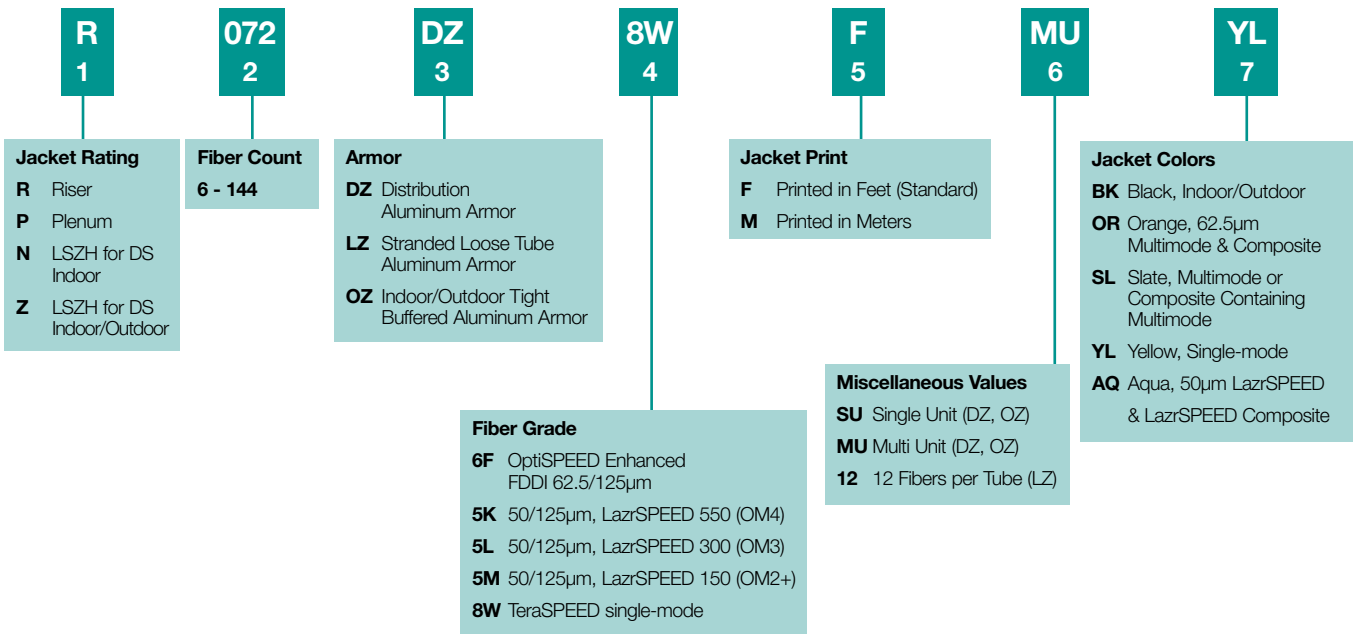
FiberGuard® Interlocking Armored Riser and LSZH Distribution Cables

- 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 and High Security Area applications



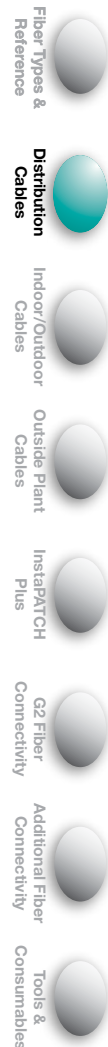
- Features & Benefits:**
- Aluminum interlocking armor with overall jacket.
 - NEC/CEC compliant
 - Outstanding mechanical protection for sensitive cables combined with excellent flexibility.

- Fiber Types & Reference
- Distribution Cables
- Indoor/Outdoor Cables
- Outside Plant Cables
- InstaPATCH Plus
- G2 Fiber Connectivity
- Additional Fiber Connectivity
- Tools & Consumables



Fiber identification colors follow the ANSI/TIA-568-C.3 Color Code.
 Visit www.commscope.com for FiberGuard product specification sheets.

Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius		Max. Tensile Load lbs./Newton	Crush Resistance	Weight		Material ID
			Loaded inch/cm	Unloaded inch/cm			lbs./ 1000'	kg/ 1000'	
6	R-006-DZ-5K-FSUAQ	0.51/12.8	10.1/25.7	7.1/18.0	300/1335	85 N/mm	92	136	760127506
12	R-012-DZ-5K-FSUAQ	0.51/12.8	10.1/25.7	7.1/18.0	300/1335	85 N/mm	98	146	760127514
24	R-024-DZ-5K-FSUAQ	0.61/15.4	12.1/30.7	8.5/21.5	300/1335	85 N/mm	131	195	760126524
48	R-048-DZ-5K-FMUAQ	0.91/23.0	18.1/46.0	12.7/32.2	300/1335	85 N/mm	294	438	760126540
72	R-072-DZ-5K-FMUAQ	1.11/28.1	22.1/56.1	15.5/39.3	300/1335	85 N/mm	397	591	760126557
144	R-144-DZ-5K-FMUAQ	1.36/34.4	27.1/68.8	19.0/48.2	300/1335	85 N/mm	558	830	760127456
6	R-006-DZ-5L-FSUAQ	0.51/12.8	10.1/25.7	7.1/18.0	300/1335	85 N/mm	92	136	760127175
12	R-012-DZ-5L-FSUAQ	0.51/12.8	10.1/25.7	7.1/18.0	300/1335	85 N/mm	98	146	760127183
24	R-024-DZ-5L-FSUAQ	0.61/15.4	12.1/30.7	8.5/21.5	300/1335	85 N/mm	131	195	760127381
48	R-048-DZ-5L-FMUAQ	0.91/23.0	18.1/46.0	12.7/32.2	300/1335	85 N/mm	294	438	760127209
72	R-072-DZ-5L-FMUAQ	1.11/28.1	22.1/56.1	15.5/39.3	300/1335	85 N/mm	397	591	760127217
144	R-144-DZ-5L-FMUAQ	1.36/34.4	27.1/68.8	19.0/48.2	300/1335	85 N/mm	558	830	760127464
6	R-006-DZ-5M-FSUAQ	0.51/12.8	10.1/25.7	7.1/18.0	300/1335	85 N/mm	92	136	760127225
12	R-012-DZ-5M-FSUAQ	0.51/12.8	10.1/25.7	7.1/18.0	300/1335	85 N/mm	98	146	760127233
24	R-024-DZ-5M-FSUAQ	0.61/15.4	12.1/30.7	8.5/21.5	300/1335	85 N/mm	131	195	760127415
48	R-048-DZ-5M-FMUAQ	0.91/23.0	18.1/46.0	12.7/32.2	300/1335	85 N/mm	294	438	760127266
72	R-072-DZ-5M-FMUAQ	1.11/28.1	22.1/56.1	15.5/39.3	300/1335	85 N/mm	397	591	760127274
144	R-144-DZ-5M-FMUAQ	1.36/34.4	27.1/68.8	19.0/48.2	300/1335	85 N/mm	558	830	760127472
6	R-006-DZ-8W-FSUYL	0.51/12.8	10.1/25.7	7.1/18.0	300/1335	85 N/mm	92	136	760127308
6	R-006-DZ-6F-FSUSL	0.51/12.8	10.1/25.7	7.1/18.0	300/1335	85 N/mm	92	136	760126623
12	R-012-DZ-8W-FSUYL	0.51/12.8	10.1/25.7	7.1/18.0	300/1335	85 N/mm	98	146	760127316
24	R-024-DZ-8W-FSUYL	0.61/15.4	12.1/30.7	8.5/21.5	300/1335	85 N/mm	131	195	760127373
48	R-048-DZ-8W-FMUYL	0.91/23.0	18.1/46.0	12.7/32.2	300/1335	85 N/mm	294	438	760127357
72	R-072-DZ-8W-FMUYL	1.11/28.1	22.1/56.1	15.5/39.3	300/1335	85 N/mm	397	591	760127480
144	R-144-DZ-8W-FMUYL	1.26/31.9	27.1/68.8	19.0/48.2	300/1335	85 N/mm	558	830	760127472
6	N-006-DZ-5K-FSUAQ	0.51/12.8	10.1/25.7	7.1/18.0	300/1335	85 N/mm	92	136	760125187
12	N-012-DZ-5K-FSUAQ	0.51/12.8	10.1/25.7	7.1/18.0	300/1335	85 N/mm	98	146	760125195
24	N-024-DZ-5K-FSUAQ	0.61/15.4	12.1/30.7	8.5/21.5	300/1335	85 N/mm	131	195	760125211
6	N-006-DZ-5L-FSUAQ	0.51/12.8	10.1/25.7	7.1/18.0	300/1335	85 N/mm	92	136	760125245
12	N-012-DZ-5L-FSUAQ	0.51/12.8	10.1/25.7	7.1/18.0	300/1335	85 N/mm	98	146	760125260
24	N-024-DZ-5L-FSUAQ	0.61/15.4	12.1/30.7	8.5/21.5	300/1335	85 N/mm	131	195	760125286
48	N-048-DZ-5L-FMUAQ	0.91/23.0	18.1/46.0	12.7/32.2	300/1335	85 N/mm	294	438	760125302
72	N-072-DZ-5L-FMUAQ	1.11/28.1	22.1/56.1	15.5/39.3	300/1335	85 N/mm	397	591	760125310
6	N-006-DZ-5M-FSUAQ	0.51/12.8	10.1/25.7	7.1/18.0	300/1335	85 N/mm	92	136	760125344
12	N-012-DZ-5M-FSUAQ	0.51/12.8	10.1/25.7	7.1/18.0	300/1335	85 N/mm	98	146	760125351
24	N-024-DZ-5M-FSUAQ	0.61/15.4	12.1/30.7	8.5/21.5	300/1335	85 N/mm	131	195	760125377
48	N-048-DZ-5M-FMUAQ	0.91/23.0	18.1/46.0	12.7/32.2	300/1335	85 N/mm	294	438	760125393
72	N-072-DZ-5M-FMUAQ	1.11/28.1	22.1/56.1	15.5/39.3	300/1335	85 N/mm	397	591	760125401
6	N-006-DZ-8W-FSUYL	0.51/12.8	10.1/25.7	7.1/18.0	300/1335	85 N/mm	92	136	760125518
12	N-012-DZ-8W-FSUYL	0.51/12.8	10.1/25.7	7.1/18.0	300/1335	85 N/mm	98	146	760125534
24	N-024-DZ-8W-FSUYL	0.61/15.4	12.1/30.7	8.5/21.5	300/1335	85 N/mm	131	195	760125542
48	N-048-DZ-8W-FMUYL	0.91/23.0	18.1/46.0	12.7/32.2	300/1335	85 N/mm	294	438	760125567
72	N-072-DZ-8W-FMUYL	1.11/28.1	22.1/56.1	15.5/39.3	300/1335	85 N/mm	397	591	760125575



FiberGuard® Interlocking Armored Plenum Distribution Cables

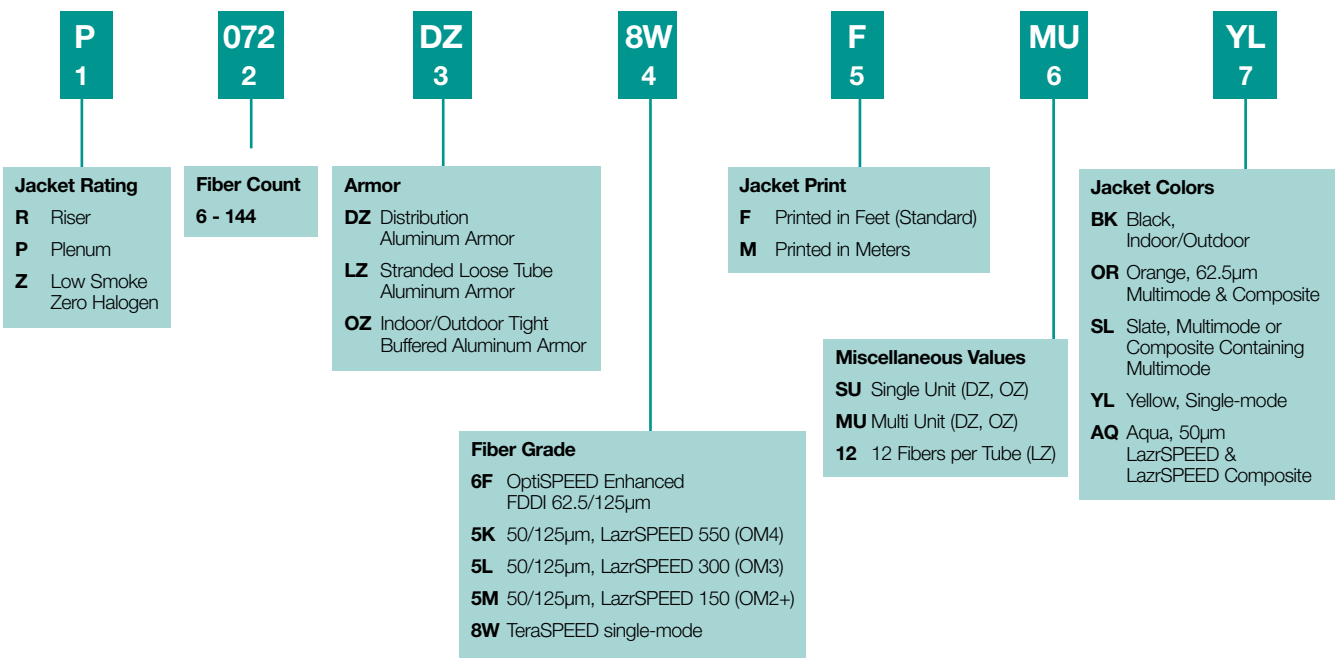
Applications:

- 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 and High Security Area applications



Features & Benefits:

- Aluminum interlocking armor with overall jacket.
- NEC/CEC compliant
- Outstanding mechanical protection for sensitive cables combined with excellent flexibility.



Fiber identification colors follow the ANSI/TIA-568-C.2 Color Code.
 Visit www.commscope.com for FiberGuard product specification sheets.

- Fiber Types & Reference
- Distribution Cables
- Indoor/Outdoor Cables
- Outside Plant Cables
- InstaPATCH Plus
- G2 Fiber Connectivity
- Additional Fiber Connectivity
- Tools & Consumables

Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius		Max. Tensile Load lbs./Newton	Crush Resistance	Weight		Material ID
			Loaded inch/cm	Unloaded inch/cm			lbs./1000'	kg/1000'	
6	P-006-DZ-5K-FSUAQ	0.51/12.8	10.1/27.5	7.1/18.0	225/1001	90 N/mm	95	142	760128181
12	P-012-DZ-5K-FSUAQ	0.51/12.8	10.1/27.5	7.1/18.0	225/1001	90 N/mm	101	151	760128017
24	P-024-DZ-5K-FSUAQ	0.69/17.4	13.7/34.8	9.6/24.4	300/1335	90 N/mm	206	307	760127910
48	P-048-DZ-5K-FMUAQ	0.91/23.0	18.1/46.0	12.7/32.2	300/1335	85 N/mm	302	449	760125971
72	P-072-DZ-5K-FMUAQ	1.11/28.1	22.1/56.1	15.5/39.3	300/1335	85 N/mm	418	622	760128108
144	P-144-DZ-5K-FMUAQ	1.31/33.1	26.1/66.3	18.3/46.4	300/1335	90 N/mm	574	854	760127927
6	P-006-DZ-5L-FSUAQ	0.51/12.8	10.1/27.5	7.1/18.0	225/1001	90 N/mm	95	142	760127639
12	P-012-DZ-5L-FSUAQ	0.51/12.8	10.1/27.5	7.1/18.0	225/1001	90 N/mm	101	151	760127647
24	P-024-DZ-5L-FSUAQ	0.69/17.4	13.7/34.8	9.6/24.4	300/1335	90 N/mm	206	307	760127902
48	P-048-DZ-5L-FMUAQ	0.91/23.0	18.1/46.0	12.7/32.2	300/1335	85 N/mm	302	449	760127670
72	P-072-DZ-5L-FMUAQ	1.11/28.1	22.1/56.1	15.5/39.3	300/1335	85 N/mm	418	622	760127688
6	P-006-DZ-5M-FSUAQ	0.51/12.8	10.1/27.5	7.1/18.0	225/1001	90 N/mm	95	142	760127696
12	P-012-DZ-5M-FSUAQ	0.51/12.8	10.1/27.5	7.1/18.0	225/1001	90 N/mm	101	151	760127704
24	P-024-DZ-5M-FSUAQ	0.69/17.4	13.7/34.8	9.6/24.4	300/1335	90 N/mm	206	307	760127878
48	P-048-DZ-5M-FMUAQ	0.91/23.0	18.1/46.0	12.7/32.2	300/1335	85 N/mm	302	449	760127738
72	P-072-DZ-5M-FMUAQ	1.11/28.1	22.1/56.1	15.5/39.3	300/1335	85 N/mm	418	622	760127746
144	P-144-DZ-5M-FMUAQ	1.31/33.1	26.1/66.3	18.3/46.4	300/1335	90 N/mm	574	854	760127993
6	P-006-DZ-6F-FSUSL	0.51/12.8	10.1/27.5	7.1/18.0	225/1001	90 N/mm	95	142	760126011
6	P-006-DZ-8W-FSUYL	0.51/12.8	10.1/27.5	7.1/18.0	225/1001	90 N/mm	95	142	760127795
12	P-012-DZ-8W-FSUYL	0.51/12.8	10.1/27.5	7.1/18.0	225/1001	90 N/mm	101	151	760127803
24	P-024-DZ-8W-FSUYL	0.69/17.4	13.7/34.8	9.6/24.4	300/1335	90 N/mm	206	307	760127886
48	P-048-DZ-8W-FMUYL	0.91/23.0	18.1/46.0	12.7/32.2	300/1335	85 N/mm	302	449	760127837
72	P-072-DZ-8W-FMUYL	1.11/28.1	22.1/56.1	15.5/39.3	300/1335	85 N/mm	418	622	760127845
144	P-144-DZ-8W-FMUYL	1.31/33.1	26.1/66.3	18.3/46.4	300/1335	90 N/mm	574	854	760128009

Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPAT/CH Plus

G2 Fiber Connectivity

Additional Fiber Connectivity

Tools & Consumables

Indoor/Outdoor Cables (OFNR & OFNP)

Fiber Types & Reference

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).

Distribution Cables

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

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.

Outside Plant Cables

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.

InstaPATCH Plus

We offer several constructions, which include:

G2 Fiber Connectivity

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.

Additional Fiber Connectivity

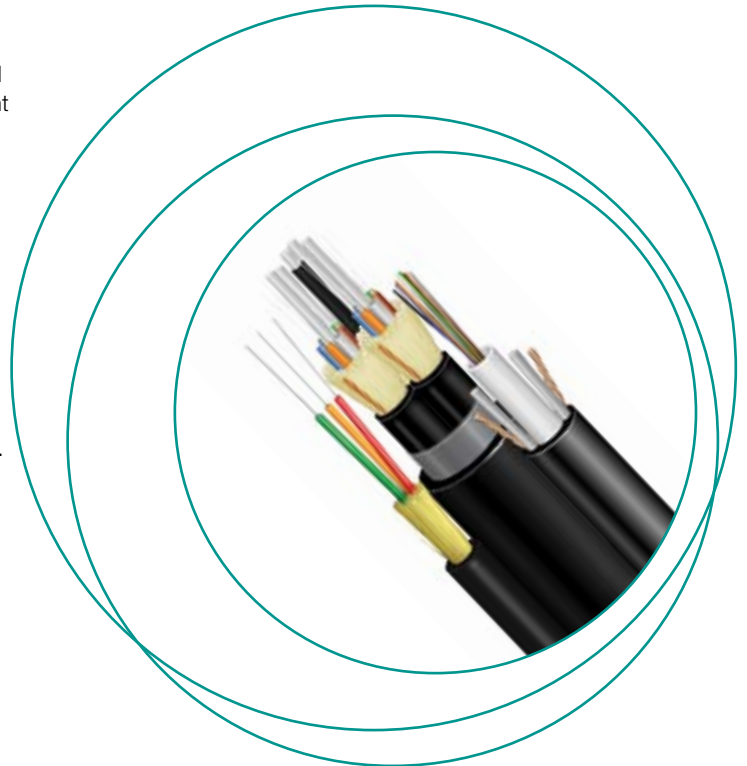
Plenum Distribution cables up to 144 tight buffered fibers. Cable meets OFNP listing requirement per NFPA-262.

Tools & Consumables

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.



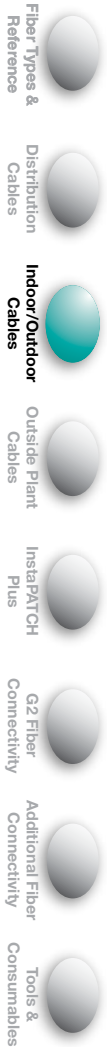
Triathlon® Indoor/Outdoor Riser and LSZH Single Unit Distribution

Features and Benefits:

- 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	Product Number	Outer Diameter inch/mm	Min. Bend Radius		Max. Tensile Load		Weight		Material ID
			Loaded inch/cm	Unloaded inch/cm	Short Term lbs./Newton	Long Term lbs./Newton	lbs./ 1000'	kg/ 1000'	
6	Z-006-DS-5K-FSUBK	.22/5.5	4.4/11.1	2.2/5.5	300/1335	90/400	17.6	26.3	760039974
12	Z-012-DS-5K-FSUBK	.28/7.2	5.6/14.2	2.8/7.1	400/1780	120/534	32.6	48.6	760006650
24	Z-024-DS-5K-FSUBK	.34/8.7	6.8/17.4	3.4/8.7	300/1335	90/400	45.2	67.3	760070300
6	Z-006-DS-5L-FSUBK	.22/5.5	4.4/11.1	2.2/5.5	300/1335	90/400	17.6	26.3	760039966
12	Z-012-DS-5L-FSUBK	.28/7.2	5.6/14.2	2.8/7.1	400/1780	120/534	32.6	48.6	700210982
24	Z-024-DS-5L-FSUBK	.34/8.7	6.8/17.4	3.4/8.7	300/1335	90/400	45.2	67.3	760070292
6	Z-006-DS-5M-FSUBK	.22/5.5	4.4/11.1	2.2/5.5	300/1335	90/400	17.6	26.3	760046631
12	Z-012-DS-5M-FSUBK	.28/7.2	5.6/14.2	2.8/7.1	400/1780	120/534	32.6	48.6	700211014
24	Z-024-DS-5M-FSUBK	.34/8.7	6.8/17.4	3.4/8.7	300/1335	90/400	45.2	67.3	760070284
6	Z-006-DS-8W-FSUBK	.22/5.5	4.4/11.1	2.2/5.5	300/1335	90/400	17.6	26.3	760009753
12	Z-012-DS-8W-FSUBK	.28/7.2	5.6/14.2	2.8/7.1	400/1780	120/534	32.6	48.6	700004184
24	Z-024-DS-8W-FSUBK	.34/8.7	6.8/17.4	3.4/8.7	300/1335	90/400	45.2	67.3	760070276
6	Z-006-DS-6F-FSUBK	.22/5.5	4.4/11.1	2.2/5.5	300/1335	90/400	17.6	26.3	760054973
12	Z-012-DS-6F-FSUBK	.28/7.2	5.6/14.2	2.8/7.1	400/1780	120/534	32.6	48.6	700211279
24	Z-024-DS-6F-FSUBK	.34/8.7	6.8/17.4	3.4/8.7	300/1335	90/400	45.2	67.3	760070318



EMEA Only

12	Z-012-DS-5K-FSUBK	.28/7.2	5.6/14.2	2.8/7.1	400/1780	120/534	32.6	48.6	760007492
24	Z-024-DS-5K-FSUBK	.34/8.7	6.8/17.4	3.4/8.7	300/1335	90/400	45.2	67.3	760066837
6	Z-006-DS-5L-FSUBK	.22/5.5	4.4/11.1	2.2/5.5	300/1335	90/400	17.6	26.3	760015289
12	Z-012-DS-5L-FSUBK	.28/7.2	5.6/14.2	2.8/7.1	400/1780	120/534	32.6	48.6	700010119
24	Z-024-DS-5L-FSUBK	.34/8.7	6.8/17.4	3.4/8.7	300/1335	90/400	45.2	67.3	760066829
6	Z-006-DS-5M-FSUBK	.22/5.5	4.4/11.1	2.2/5.5	300/1335	90/400	17.6	26.3	760035790
12	Z-012-DS-5M-FSUBK	.28/7.2	5.6/14.2	2.8/7.1	400/1780	120/534	32.6	48.6	760002170
24	Z-024-DS-5M-FSUBK	.34/8.7	6.8/17.4	3.4/8.7	300/1335	90/400	45.2	67.3	760066811
6	Z-006-DS-8W-FSUBK	.22/5.5	4.4/11.1	2.2/5.5	300/1335	90/400	17.6	26.3	760011049
12	Z-012-DS-8W-FSUBK	.28/7.2	5.6/14.2	2.8/7.1	400/1780	120/534	32.6	48.6	760004218
24	Z-024-DS-8W-FSUBK	.34/8.7	6.8/17.4	3.4/8.7	300/1335	90/400	45.2	67.3	760066795
12	Z-012-DS-6F-FSUBK	.28/7.2	5.6/14.2	2.8/7.1	400/1780	120/534	32.6	48.6	700010390
24	Z-024-DS-6F-FSUBK	.34/8.7	6.8/17.4	3.4/8.7	300/1335	90/400	45.2	67.3	760066803

Single-mode/Multimode Composite (6-24 Fiber)

Z-XXX-DS-CM-FSUXX/AAaaa/BBbbb

Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count

XY = Fiber Grade

5K LazrSPEED 550, 50µm, multimode, OM4
5L LazrSPEED 300, 50µm, multimode, OM3
5M LazrSPEED 150, 50µm, multimode, OM2+

6F OptiSPEED 62.5/125µm, multimode (OM1)
8W TeraSPEED (single-mode)

ZZ = Standard Jacket Color

OR Orange - Multimode or composite containing multimode
AQ Aqua - LazrSPEED or composite containing multimode
SL Slate - Multimode or composite containing multimode

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.

Triathlon Riser and LSZH Indoor/Outdoor Single Unit Distribution Cable (24 Fiber Version Shown)

Riser and LSZH Jacket

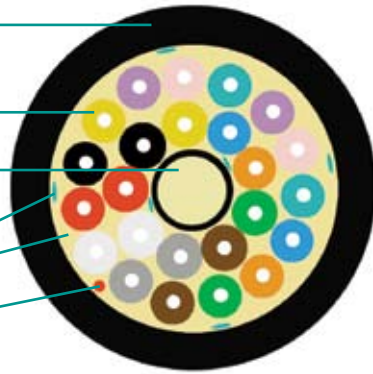
900µm Tight-buffered
250µm Fiber

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

Fiber Types &
Reference

Distribution
Cables

Indoor/Outdoor
Cables

Outside Plant
Cables

InstaPATCH
Plus

G2 Fiber
Connectivity

Additional Fiber
Connectivity

Tools &
Consumables

Triathlon® Indoor/Outdoor Riser and LSZH Multi Unit Distribution

Features and Benefits:

- 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	Product Number	Outer Diameter inch/mm	Min. Bend Radius		Max. Tensile Load		Weight		Material ID
			Loaded inch/cm	Unloaded inch/cm	Short Term lbs./Newton	Long Term lbs./Newton	lbs./1000'	kg/1000'	
48	Z-048-DS-5K-FMUBK	.80/20.2	16.0/40.6	8.0/20.3	800/3560	240/1068	206.6	307.4	760056978
72	Z-072-DS-5K-FMUBK	.95/24.1	19.0/48.2	9.5/24.1	1000/4450	300/1335	320.5	477.0	760123463
48	Z-048-DS-5L-FMUBK	.80/20.2	16.0/40.6	8.0/20.3	800/3560	240/1068	206.6	307.4	760010371
72	Z-072-DS-5L-FMUBK	.95/24.1	19.0/48.2	9.5/24.1	1000/4450	300/1335	320.5	477.0	760019612
48	Z-048-DS-5L-FMUBK	.80/20.2	16.0/40.6	8.0/20.3	800/3560	240/1068	206.6	307.4	760090309
72	Z-072-DS-5L-FMUBK	.95/24.1	19.0/48.2	9.5/24.1	1000/4450	300/1335	320.5	477.0	760067595

EMEA Only

72	Z-072-DS-5K-FMUBK	.95/24.1	19.0/48.2	9.5/24.1	1000/4450	300/1335	320.5	477.0	760032441
48	Z-048-DS-5L-FMUBK	.80/20.2	16.0/40.6	8.0/20.3	800/3560	240/1068	206.6	307.4	760012013
48	Z-048-DS-8W-FMUBK	.80/20.2	16.0/40.6	8.0/20.3	800/3560	240/1068	206.6	307.4	760068726

Single-mode/Multimode Composite (48-72 Fiber) Z-XXX-DS-CM-FSUXX/AAaaa/BBbbb Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count

XY = Fiber Grade

5K LazrSPEED 550, 50µm, multimode, OM4	6F OptiSPEED 62.5/125µm, multimode (OM1)
5L LazrSPEED 300, 50µm, multimode, OM3	8W TeraSPEED (single-mode)
5M LazrSPEED 150, 50µm, multimode, OM2+	

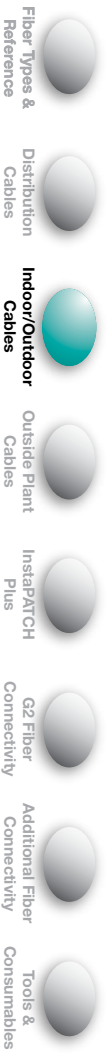
ZZ = Standard Jacket Color

OR Orange - Multimode or composite containing multimode	YL Yellow - Single-mode or composite containing single-mode
AQ Aqua - LazrSPEED or composite containing multimode	Minimum order required for special colors.
SL Slate - Multimode or composite containing multimode	

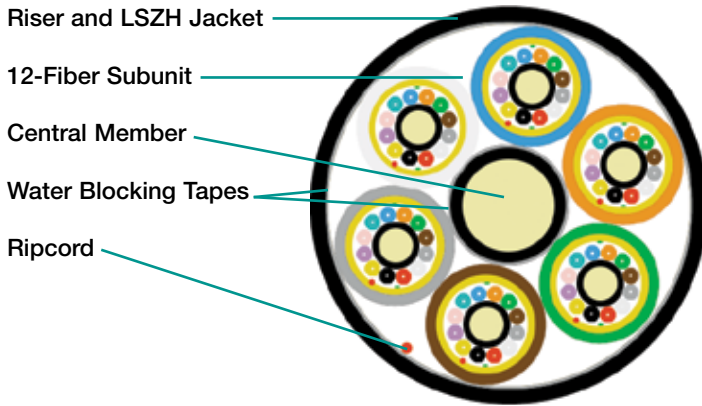
For Composites Only

aaa is replaced with single-mode fiber count	bbb is replaced by multimode fiber count
AA is replaced with single-mode type	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.



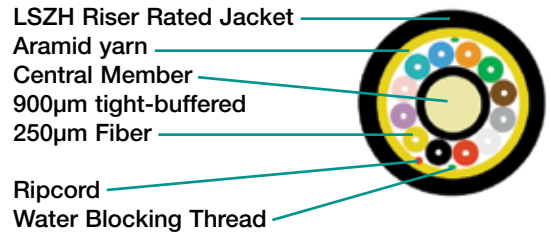
Multi-Unit Triathlon Riser and LSZH Indoor/Outdoor-Distribution Cable (72 and 12 Fiber Versions Shown)



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



Indoor/Outdoor Single Unit Plenum Distribution

Features and Benefits:

- 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	Product Number	Outer Diameter inch/mm	Min. Bend Radius		Max. Tensile Load		Weight		Material ID
			Loaded inch/cm	Unloaded inch/cm	Short Term lbs./Newton	Long Term lbs./Newton	lbs./ 1000'	kg/ 1000'	
6	P-006-OD-5K-FSUBK	0.21/5.4	4.3/10.8	2.1/5.4	300/1335	90/400	18.7	27.9	760036426
12	P-012-OD-5K-FSUBK	0.27/6.9	5.4/13.8	2.7/6.9	300/1335	90/400	36.0	53.6	760037432
24	P-024-OD-5K-FSUBK	0.31/7.9	6.3/15.9	3.1/7.9	300/1335	90/400	41.4	61.6	760037457
6	P-006-OD-5L-FSUBK	0.21/5.4	4.3/10.8	2.1/5.4	300/1335	90/400	18.7	27.9	760036418
12	P-012-OD-5L-FSUBK	0.27/6.9	5.4/13.8	2.7/6.9	300/1335	90/400	36.0	53.6	760037374
24	P-024-OD-5L-FSUBK	0.31/7.9	6.3/15.9	3.1/7.9	300/1335	90/400	41.4	61.6	760037390
6	P-006-OD-5M-FSUBK	0.21/5.4	4.3/10.8	2.1/5.4	300/1335	90/400	18.7	27.9	760036400
12	P-012-OD-5M-FSUBK	0.27/6.9	5.4/13.8	2.7/6.9	300/1335	90/400	36.0	53.6	760037317
24	P-024-OD-5M-FSUBK	0.31/7.9	6.3/15.9	3.1/7.9	300/1335	90/400	41.4	61.6	760037333
6	P-006-OD-8W-FSUBK	0.21/5.4	4.3/10.8	2.1/5.4	300/1335	90/400	18.7	27.9	760036384
12	P-012-OD-8W-FSUBK	0.27/6.9	5.4/13.8	2.7/6.9	300/1335	90/400	36.0	53.6	760037192
24	P-024-OD-8W-FSUBK	0.31/7.9	6.3/15.9	3.1/7.9	300/1335	90/400	41.4	61.6	760037218
6	P-006-OD-6F-FSUBK	0.21/5.4	4.3/10.8	2.1/5.4	300/1335	90/400	18.7	27.9	760036392
12	P-012-OD-6F-FSUBK	0.27/6.9	5.4/13.8	2.7/6.9	300/1335	90/400	36.0	53.6	760037259
24	P-024-OD-6F-FSUBK	0.31/7.9	6.3/15.9	3.1/7.9	300/1335	90/400	41.4	61.6	760037275

Single-mode/Multimode Composite (6-12 Fiber) P-XXX-OD-CM-FSUBK/AAaaa/BBbbb Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:

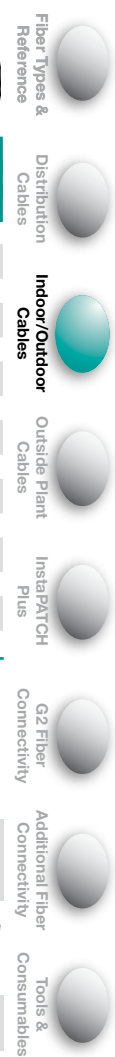
XXX = Total Fiber Count

XY = Fiber Grade	5K	LazrSPEED 550, 50µm, multimode, OM4	6F	OptiSPEED 62.5/125µm, multimode (OM1)
	5L	LazrSPEED 300, 50µm, multimode, OM3	8W	TeraSPEED (single-mode)
	5M	LazrSPEED 150, 50µm, multimode, OM2+		

ZZ = Standard Jacket Color	OR	Orange - Multimode or composite containing multimode	YL	Yellow - Single-mode or composite containing single-mode
	AQ	Aqua - LazrSPEED or composite containing multimode	Minimum order required for special colors.	
	SL	Slate - Multimode or composite containing multimode		

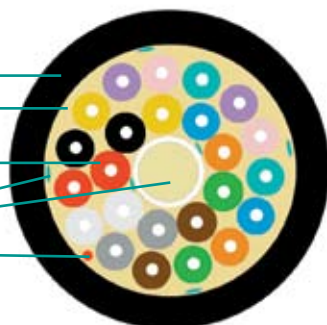
For Composites Only	aaa	is replaced with single-mode fiber count	bbb	is replaced by multimode fiber count
	AA	is replaced with single-mode type	BB	is replaced by multimode type

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.



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

Features and Benefits:

- 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	Product Number	Outer Diameter inch/mm	Min. Bend Radius		Max. Tensile Load		Weight		Material ID
			Loaded inch/cm	Unloaded inch/cm	Short Term lbs./Newton	Long Term lbs./Newton	lbs./ 1000'	kg/ 1000'	
48	P-048-OD-5K-FMUBK	.74/18.9	14.9/37.8	7.4/18.9	800/3560	240/1068	222	330	760038141
72	P-072-OD-5K-FMUBK	.93/23.7	18.7/47.4	9.3/23.7	1000/4450	300/1335	357	532	760038166
144	P-144-OD-5K-FMUBK	1.19/30.3	23.8/60.6	11.9/30.3	1000/4450	300/1335	558	831	760038182
48	P-048-OD-5L-FMUBK	.74/18.9	14.9/37.8	7.4/18.9	800/3560	240/1068	222	330	760038083
72	P-072-OD-5L-FMUBK	.93/23.7	18.7/47.4	9.3/23.7	1000/4450	300/1335	357	532	760038109
144	P-144-OD-5L-FMUBK	1.19/30.3	23.8/60.6	11.9/30.3	1000/4450	300/1335	558	831	760038125
48	P-048-OD-5M-FMUBK	.74/18.9	14.9/37.8	7.4/18.9	800/3560	240/1068	222	330	760038026
72	P-072-OD-5M-FMUBK	.93/23.7	18.7/47.4	9.3/23.7	1000/4450	300/1335	357	532	760038042
144	P-144-OD-5M-FMUBK	1.19/30.3	23.8/60.6	11.9/30.3	1000/4450	300/1335	558	831	760038067
48	P-048-OD-8W-FMUBK	.74/18.9	14.9/37.8	7.4/18.9	800/3560	240/1068	222	330	760037903
72	P-072-OD-8W-FMUBK	.93/23.7	18.7/47.4	9.3/23.7	1000/4450	300/1335	357	532	760037929
144	P-144-OD-8W-FMUBK	1.19/30.3	23.8/60.6	11.9/30.3	1000/4450	300/1335	558	831	760037945
48	P-048-OD-6F-FMUBK	.74/18.9	14.9/37.8	7.4/18.9	800/3560	240/1068	222	330	760037690
72	P-072-OD-6F-FMUBK	.93/23.7	18.7/47.4	9.3/23.7	1000/4450	300/1335	357	532	760037986
144	P-144-OD-6F-FMUBK	1.19/30.3	23.8/60.6	11.9/30.3	1000/4450	300/1335	558	831	760038000

Single-mode/Multimode Composite (48-144 Fiber) P-XXX-OD-CM-FMUXX/AAaaa/BBbbb Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count

XY = Fiber Grade
5K LazrSPEED 550, 50µm, multimode, OM4
5L LazrSPEED 300, 50µm, multimode, OM3
5M LazrSPEED 150, 50µm, multimode, OM2+
6F OptiSPEED 62.5/125µm, multimode (OM1)
8W TeraSPEED (single-mode)

ZZ = Standard Jacket Color
OR Orange - Multimode or composite containing multimode
AQ Aqua - LazrSPEED or composite containing multimode
SL Slate - Multimode or composite containing multimode
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.

Indoor/Outdoor Multi Unit Plenum Distribution Cable

(72 Fiber Version Shown)

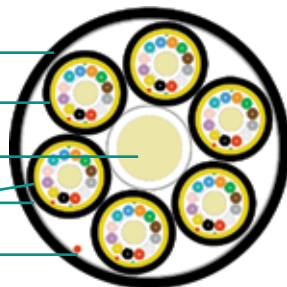
Outer jacket

12-Fiber Subunit

Central Member

Water Blocking Tapes

Ripcord

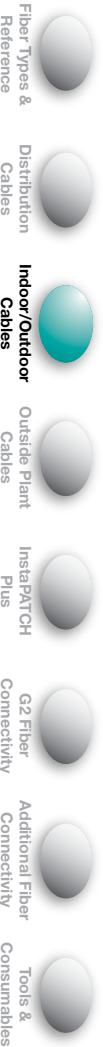


Mechanical Properties

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

Indoor/Outdoor Gel-free Stranded Loose Tube Riser

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.



Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded		Max. Tensile Load		Weight		Material ID
			inch/cm	Unloaded inch/cm	Short Term lbs./Newton	Long Term lbs./Newton	lbs./ 1000'	kg/ 1000'	
12	R-012-LN-5K-F12BK/25D	.45/11.5	9.0/23.0	4.5/11.5	607/2700	440	79	118	760101295
24	R-024-LN-5K-F12BK/25D	.45/11.5	9.0/23.0	4.5/11.5	607/2700	440	79	118	760101303
72	R-072-LN-5K-F12BK/25D	.47/11.9	9.3/23.8	4.7/11.9	607/2700	440	85	127	760101329
288	R-288-LN-5K-F12BK/25D	.79/20.2	15.9/40.4	7.9/20.2	607/2700	440	208	310	760128199
24	R-024-LN-5L-F12BK/25D	.45/11.5	9.0/23.0	4.5/11.5	607/2700	440	79	118	760086413
6	R-006-LN-8W-F06BK/25D	.45/11.5	9.0/23.0	4.5/11.5	607/2700	440	79	118	760086355
12	R-012-LN-8W-F12BK/25D	.45/11.5	9.0/23.0	4.5/11.5	607/2700	440	79	118	760086371
24	R-024-LN-8W-F12BK/25D	.45/11.5	9.0/23.0	4.5/11.5	607/2700	440	79	118	760086405
48	R-048-LN-8W-F12BK/25D	.45/11.5	9.0/23.0	4.5/11.5	607/2700	440	79	118	760086470
72	R-072-LN-8W-F12BK/25D	.47/11.9	9.3/23.8	4.7/11.9	607/2700	440	85	127	760086538
144	R-144-LN-8W-F12BK/25D	.68/17.2	13.5/34.4	6.8/17.2	607/2700	440	176	262	760086652
288	R-288-LN-8W-F12BK/25D	.79/20.2	15.9/40.4	7.9/20.2	607/2700	440	208	310	760086710
6	R-006-LN-6F-F06BK/25D	.45/11.5	9.0/23.0	4.5/11.5	607/2700	440	79	118	760086348
12	R-012-LN-6F-F12BK/25D	.45/11.5	9.0/23.0	4.5/11.5	607/2700	440	79	118	760086363
24	R-024-LN-6F-F12BK/25D	.45/11.5	9.0/23.0	4.5/11.5	607/2700	440	79	118	760086397
48	R-048-LN-6F-F12BK/25D	.45/11.5	9.0/23.0	4.5/11.5	607/2700	440	79	118	760086462
72	R-072-LN-6F-F12BK/25D	.47/11.9	9.3/23.8	4.7/11.9	607/2700	440	85	127	760086520
144	R-144-LN-6F-F12BK/25D	.68/17.2	13.5/34.4	6.8/17.2	607/2700	440	176	262	760086645
288	R-288-LN-6F-F12BK/25D	.79/20.2	15.9/40.4	7.9/20.2	607/2700	440	208	310	760086702

Single-mode/Multimode R-XXX-LN-CM-FZZBK/AAaaa/BBbbb/25D Custom design - sizes/specs will vary depending on fiber count
Composite (6-288 Fiber)

Variables in the Product Number:

XXX = Total Fiber Count

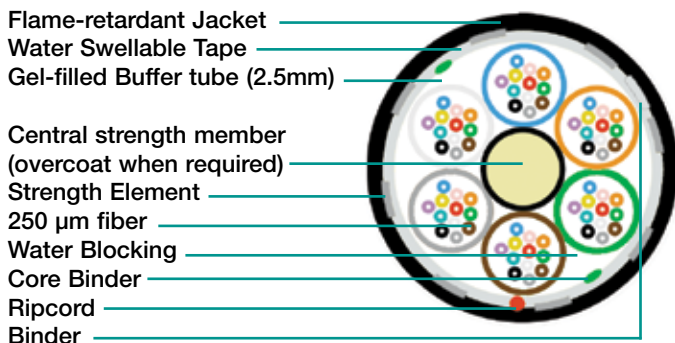
XY = Fiber Grade	5K LazrSPEED 550, 50µm, multimode, OM4	6F OptiSPEED 62.5/125µm, multimode (OM1)
	5L LazrSPEED 300, 50µm, multimode, OM3	8W TeraSPEED (single-mode)
	5M LazrSPEED 150, 50µm, multimode, OM2+	

ZZ = Standard Jacket Color	OR Orange - Multimode or composite containing multimode	YL Yellow - Single-mode or composite containing single-mode
	AQ Aqua - LazrSPEED or composite containing multimode	Minimum order required for special colors.
	SL Slate - Multimode or composite containing multimode	

For Composites Only	aaa is replaced with single-mode fiber count	bbb is replaced by multimode fiber count
	AA is replaced with single-mode type	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.

Indoor/Outdoor Gel-free Stranded Loose (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

Heavy Duty Indoor/Outdoor Gel-free Stranded Loose Tube Riser

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



Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load lbs./Newton	Crush Resistance	Weight lbs./1000'	Weight kg/1000'	Material ID
6	R-006-LH-5K-F06BK/25D	.48/12.3	9.7/24.6	4.8/12.3	607/2700	440	97	144	760086850
6	R-006-LH-5L-F06BK/25D	.48/12.3	9.7/24.6	4.8/12.3	607/2700	440	97	144	760122200
6	R-006-LH-8W-F06BK/25D	.48/12.3	9.7/24.6	4.8/12.3	607/2700	440	97	144	
12	R-012-LH-8W-F12BK/25D	.48/12.3	9.7/24.6	4.8/12.3	607/2700	440	97	144	760086876
24	R-024-LH-8W-F12BK/25D	.48/12.3	9.7/24.6	4.8/12.3	607/2700	440	97	144	760086892
48	R-048-LH-8W-F12BK/25D	.48/12.3	9.7/24.6	4.8/12.3	607/2700	440	97	144	760086918
72	R-072-LH-8W-F12BK/25D	.50/12.7	10.0/25.4	5.0/12.7	607/2700	440	103	154	760086934
144	R-144-LH-8W-F12BK/25D	.70/17.9	14.1/35.8	7.0/17.9	607/2700	440	201	300	760086959
6	R-006-LH-6F-F06BK/25D	.48/12.3	9.7/24.6	4.8/12.3	607/2700	440	97	144	760086843
12	R-012-LH-6F-F12BK/25D	.48/12.3	9.7/24.6	4.8/12.3	607/2700	440	97	144	760086868
24	R-024-LH-6F-F12BK/25D	.48/12.3	9.7/24.6	4.8/12.3	607/2700	440	97	144	760086884
48	R-048-LH-6F-F12BK/25D	.48/12.3	9.7/24.6	4.8/12.3	607/2700	440	97	144	760086900
72	R-072-LH-6F-F12BK/25D	.50/12.7	10.0/25.4	5.0/12.7	607/2700	440	103	154	760086926
144	R-144-LH-6F-F12BK/25D	.70/17.9	14.1/35.8	7.0/17.9	607/2700	440	201	300	760086942

Single-mode/Multimode R-XXX-LH-CM-FZZBK/AAaaa/BBbbb/25D Custom design - sizes/specs will vary depending on fiber count
Composite (6-288 Fiber)

Variables in the Product Number:

XXX = Total Fiber Count

XY = Fiber Grade	5K	LazrSPEED 550, 50µm, multimode, OM4	6F	OptiSPEED 62.5/125µm, multimode (OM1)
	5L	LazrSPEED 300, 50µm, multimode, OM3	8W	TeraSPEED (single-mode)
	5M	LazrSPEED 150, 50µm, multimode, OM2+		

ZZ = Standard Jacket Color	OR	Orange - Multimode or composite containing multimode	YL	Yellow - Single-mode or composite containing single-mode
	AQ	Aqua - LazrSPEED or composite containing multimode	Minimum order required for special colors.	
	SL	Slate - Multimode or composite containing multimode		

For Composites Only	aaa	is replaced with single-mode fiber count	bbb	is replaced by multimode fiber count
	AA	is replaced with single-mode type	BB	is replaced by multimode type

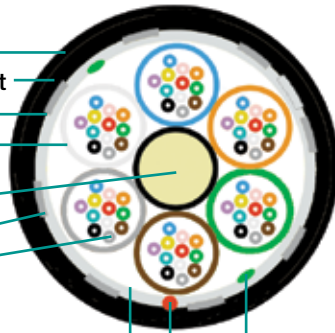
Fiber Identification Colors 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua
Fibers 13-24 repeat color sequence with tracer stripe.

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

- Core Binder
- Ripcord
- Arid-Core Water Blocking



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

Mini LSZH Indoor/Outdoor Armored Loose Tube Cable

The CommScope Low Smoke Zero Halogen (LSZH) Armored Mini Indoor/ Outdoor Cable provides all the benefits of loose-tube indoor cables, along with the durability for use in outdoor environments in cable ducts. The LSZH indoor/outdoor loose tube cable is used as a transition cable from outdoor to indoor applications. Since it can be used outdoors as well as indoors, transition splicing is eliminated at the building entrance.



Features & Benefits:

- Low smoke zero halogen cable suitable for use in indoor/outdoor applications
- Stranded loose tube cable contains 2.0mm gel-filled buffers 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
- Waterblocked cable core contains super-absorbent polymer yarns and tapes to prevent damage from water
- UV-resistant jacket for use outdoors
- Fiber counts from 6-144
- Available with single-mode and multimode fibers
- Meets flame ratings per IEC 60332-1, IEC 60332-3, and IEC 61034

Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Unloaded inch/cm	Max. Tensile Load lbs./Newton	Crush Resistance	Weight lbs./ 1000'	kg/ 1000'	Material ID
6	Z-006-LA-5L-X12BK/20G	.48/12.3	4.8/12.3	9.7/24.6	607/2700	800	125	186	760130237
12	Z-012-LA-5L-X12BK/20G	.48/12.3	4.8/12.3	9.7/24.6	607/2700	800	125	186	760122085
24	Z-024-LA-5L-X12BK/20G	.48/12.3	4.8/12.3	9.7/24.6	607/2700	800	125	186	760130245
72	Z-072-LA-5L-X12BK/20G	.48/12.3	4.8/12.3	9.7/24.6	607/2700	800	125	186	760130252
12	Z-012-LA-8W-X12BK/20G	.48/12.3	4.8/12.3	9.7/24.6	607/2700	800	125	186	760122028
24	Z-024-LA-8W-X12BK/20G	.48/12.3	4.8/12.3	9.7/24.6	607/2700	800	125	186	760122036
48	Z-048-LA-8W-X12BK/20G	.48/12.3	4.8/12.3	9.7/24.6	607/2700	800	125	186	760122051
72	Z-072-LA-8W-X12BK/20G	.48/12.3	4.8/12.3	9.7/24.6	607/2700	800	125	186	760122069
144	Z-144-LA-8W-X12BK/20G	.63/16.1	6.3/16.1	12.7/32.2	607/2700	800	204	304	760122077

Single-mode/Multimode
Composite (6-288 Fiber)

Z-XXX-LA-XY-XZZBK/20G/AAaaa/BBbbb/25D

Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count

XY = Fiber Grade

5K LazrSPEED 550, 50µm, multimode, OM4
5L LazrSPEED 300, 50µm, multimode, OM3
5M LazrSPEED 150, 50µm, multimode, OM2+

6F OptiSPEED 62.5/125µm, multimode (OM1)
8W TeraSPEED (single-mode)

ZZ = Standard Jacket Color mode

OR Orange - Multimode or composite containing multimode

YL Yellow - Single-mode or composite containing single-

AQ Aqua - LazrSPEED or composite containing multimode
SL Slate - Multimode or composite containing multimode

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.

Fiber Types &
Reference

Distribution
Cables

Indoor/Outdoor
Cables

Outside Plant
Cables

InstaPATCH
Plus

G2 Fiber
Connectivity

Additional Fiber
Connectivity

Tools &
Consumables

Mini LSZH Indoor/Outdoor Loose Tube Cable

The CommScope Low Smoke Zero Halogen (LSZH) Indoor/ Outdoor Cable provides all the benefits of loose-tube indoor cables, along with the durability for use in outdoor environments in cable ducts.



The LSZH indoor/outdoor loose tube cable is used as a transition cable from outdoor to indoor applications. Since it can be used outdoors as well as indoors, transition splicing is eliminated at the building entrance.

Features & Benefits:

- Low smoke zero halogen cable suitable for use in indoor/outdoor applications
- Stranded loose tube cable contains 2.0mm gel-filled buffers 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
- Waterblocked cable core contains super-absorbent polymer yarns and tapes to prevent damage from water
- UV-resistant jacket for use outdoors
- Fiber counts from 6-144
- Available with single-mode and multimode fibers
- Meets flame ratings per IEC 60332-1, IEC 60332-3, and IEC 61034

Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Unloaded inch/cm	Max. Tensile Load lbs./Newton	Crush Resistance	Weight lbs./1000'	kg/1000'	Material ID
6	Z-006-LN-5L-F06BK/20G	.43/11.0	5.2/13.1	10.2/26.1	607/2700	800	115	171	760091827
12	Z-012-LN-5L-F12BK/20G	.43/11.0	5.2/13.1	10.2/26.1	607/2700	800	115	171	760091835
24	Z-024-LN-5L-F12BK/20G	.43/11.0	5.2/13.1	10.2/26.1	607/2700	800	115	171	760091843
48	Z-048-LN-5L-F12BK/20G	.43/11.0	5.2/13.1	10.2/26.1	607/2700	800	115	171	760122119
72	Z-072-LN-5L-F12BK/20G	.43/11.0	5.2/13.1	10.2/26.1	607/2700	800	115	171	760100198
6	Z-006-LN-8W-F06BK/20G	.43/11.0	5.2/13.1	10.2/26.1	607/2700	800	115	171	760091728
12	Z-012-LN-8W-F12BK/20G	.43/11.0	5.2/13.1	10.2/26.1	607/2700	800	115	171	760091736
24	Z-024-LN-8W-F12BK/20G	.43/11.0	5.2/13.1	10.2/26.1	607/2700	800	115	171	760091744
48	Z-048-LN-8W-F12BK/20G	.43/11.0	5.2/13.1	10.2/26.1	607/2700	800	115	171	760091769
72	Z-072-LN-8W-F12BK/20G	.43/11.0	5.2/13.1	10.2/26.1	607/2700	800	115	171	760091785
144	Z-144-LN-8W-F12BK/20G	.58/14.7	6.4/16.2	12.8/32.4	607/2700	800	180	268	760091819
6	Z-006-LN-6F-F06BK/20G	.43/11.0	5.2/13.1	10.2/26.1	607/2700	800	115	171	760124685
12	Z-012-LN-6F-F12BK/20G	.43/11.0	5.2/13.1	10.2/26.1	607/2700	800	115	171	760111286

Single-mode/Multimode Composite (6-288 Fiber) Z-XXX-LN-CM-FZZBK/AAaaa/BBbbb/20G Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count

XY = Fiber Grade

5K LazrSPEED 550, 50µm, multimode, OM4
5L LazrSPEED 300, 50µm, multimode, OM3
5M LazrSPEED 150, 50µm, multimode, OM2+

6F OptiSPEED 62.5/125µm, multimode (OM1)
8W TeraSPEED (single-mode)

ZZ = Standard Jacket Color

OR Orange - Multimode or composite containing multimode
AQ Aqua - LazrSPEED or composite containing multimode
SL Slate - Multimode or composite containing multimode

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

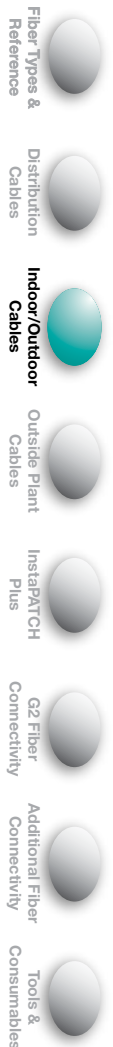
Fiber Identification Colors

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.

Mini LSZH Indoor/Outdoor HTS Stranded Loose Tube

Features and Benefits:

- 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 6 – 144 (72 fiber count shown below)



Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius		Installation Load lbs./Newton	Weight		Material ID
			Loaded inch/cm	Unloaded inch/cm		lbs./1000'	kg/1000'	
12	Z-012-LN-8W-F12BK/20G/HTS	0.51/13.1	10.3/26.2	5.1/13.1	1000/4448	115	171	760100727
24	Z-024-LN-8W-F12BK/20G/HTS	0.51/13.1	10.3/26.2	5.1/13.1	1000/4448	115	171	760100735
48	Z-048-LN-8W-F12BK/20G/HTS	0.51/13.1	10.3/26.2	5.1/13.1	1000/4448	115	171	760100743
72	Z-072-LN-8W-F12BK/20G/HTS	0.51/13.1	10.3/26.2	5.1/13.1	1000/4448	115	171	760100750
144	Z-144-LN-8W-F12BK/20G/HTS	.64/16.2	12.7/32.4	6.4/16.2	1000/4448	180	268	760100768

Single-mode/Multimode Composite (2-144 Fiber) Z-XXX-LN-8W-FZZBK/20G/HTS/AAaaa/BBbbb/25D Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count

XY = Fiber Grade	5K	LazrSPEED 550, 50µm, multimode, OM4	6F	OptiSPEED 62.5/125µm, multimode (OM1)
	5L	LazrSPEED 300, 50µm, multimode, OM3	8W	TeraSPEED (single-mode)
	5M	LazrSPEED 150, 50µm, multimode, OM2+		

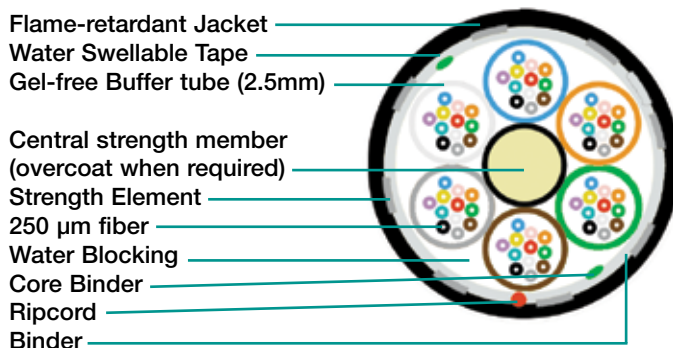
ZZ = Standard Jacket Color	OR	Orange - Multimode or composite containing multimode	YL	Yellow - Single-mode or composite containing single-mode
	AQ	Aqua - LazrSPEED or composite containing multimode	Minimum order required for special colors.	
	SL	Slate - Multimode or composite containing multimode		

For Composites Only	aaa	is replaced with single-mode fiber count	bbb	is replaced by multimode fiber count
	AA	is replaced with single-mode type	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.

Mini Indoor/Outdoor Stranded Loose Tube 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	22 N/mm
Impact Resistance	2.94 N-mm
Flexing	35 cycles
Twist/Bend	10 cycles/<300 mm

LSZH All-Dielectric Drop Indoor/Outdoor Cable

The CommScope LSZH All-Dielectric Indoor/Outdoor cables are designed to deliver the performance required for installation in indoor and outside plant environments. The central tube design, utilizing flexible radial strength elements, provides for an optimum solution for point-to-point connectivity where a small and flexible cable is desired. This cable is suitable for direct burial or aerial lashed applications in the outside plant environment. The cable can also be installed in indoor environments, bypassing the need for a cable transition of cable media at the building entrance.



Features and Benefits:

- Low smoke zero halogen cable suitable for use in indoor/outdoor applications
- Central tube cable contains a single gel-filled buffer tube containing up to twenty four 250 micron optical fibers
- Flexible radial strength members eliminate preferred bend radius of traditional central tube cable constructions
- Provides full water blocking protection for outside plant applications
- UV-resistant jacket suitable for use outdoors
- Fiber counts from 2-24
- Available with single-mode and multimode fiber types
- Compatible with all SYSTIMAX G2 Fiber Connectivity
- Meets flame ratings per IEC 60332-1, IEC 60332-3 and IEC 61034

Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius		Max. Tensile Load		Weight		Material ID
			Loaded inch/cm	Unloaded inch/cm	Short Term lbs./Newton	Long Term lbs./Newton	lbs./ 1000'	kg/ 1000'	
6	Z-006-DN-5L-F06BK	0.32/8.2	16.4/3.5	8.3/3.3	300/1334	90/400	51	76	760083360
12	Z-012-DN-5L-F12BK/20G	0.32/8.2	16.4/3.5	8.3/3.3	300/1334	90/400	51	76	760111369
24	Z-024-DN-5L-F12BK	0.32/8.2	16.4/3.5	8.3/3.3	300/1334	90/400	51	76	760083386
6	Z-006-DN-8W-F06BK	0.32/8.2	16.4/3.5	8.3/3.3	300/1334	90/400	51	76	760083303
12	Z-012-DN-8W-F12BK/20G	0.32/8.2	16.4/3.5	8.3/3.3	300/1334	90/400	51	76	760111337
24	Z-024-DN-8W-F12BK	0.32/8.2	16.4/3.5	8.3/3.3	300/1334	90/400	51	76	760083329
6	Z-006-DN-6F-F06BK/20G	0.32/8.2	16.4/3.5	8.3/3.3	300/1334	90/400	51	76	760113027
12	Z-012-DN-6F-F12BK/20G	0.32/8.2	16.4/3.5	8.3/3.3	300/1334	90/400	51	76	760113035

Single-mode/Multimode Composite (6-288 Fiber) Z-XXX-DN-XY-FXXBK/AAaaa/BBbbb Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count

XY = Fiber Grade	5K LazrSPEED 550, 50µm, multimode, OM4	6F OptiSPEED 62.5/125µm, multimode (OM1)
	5L LazrSPEED 300, 50µm, multimode, OM3	8W TeraSPEED (single-mode)
	5M LazrSPEED 150, 50µm, multimode, OM2+	

ZZ = Standard Jacket Color	OR Orange - Multimode or composite containing multimode	YL Yellow - Single-mode or composite containing single-mode
	AQ Aqua - LazrSPEED or composite containing multimode	Minimum order required for special colors.
	SL Slate - Multimode or composite containing multimode	

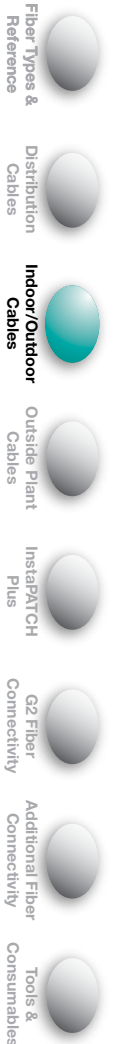
For Composites Only	aaa is replaced with single-mode fiber count	bbb is replaced by multimode fiber count
	AA is replaced with single-mode type	BB is replaced by multimode type

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.

Indoor/Outdoor Stranded Loose Tube Plenum

Features and Benefits:

- 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
- Combines application spaces of building interconnect and plenum in a campus environment
- Cable 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



Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius		Max. Tensile Load lbs./Newton	Crush Resistance	Weight		Material ID
			Loaded inch/cm	Unloaded inch/cm			lbs./ 1000'	kg/ 1000'	
6	P-006-LN-5K-F06BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760106799
12	P-012-LN-5K-F12BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760107805
24	P-024-LN-5K-F12BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760106807
48	P-048-LN-5K-F12BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760103531
72	P-072-LN-5K-F12BK/25D	.40/10.1	7.9/20.2	4.0/10.1	607/2700	440	69	103	760105536
6	P-006-LN-5L-F06BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760094870
12	P-012-LN-5L-F12BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760094912
24	P-024-LN-5L-F12BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760094953
48	P-048-LN-5L-F12BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760094995
72	P-072-LN-5L-F12BK/25D	.40/10.1	7.9/20.2	4.0/10.1	607/2700	440	69	103	760095026
144	P-144-LN-5L-F12BK/25D	.60/15.3	12.0/30.6	6.0/15.3	607/2700	440	166	247	760095083
6	P-006-LN-5M-F06BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760094862
12	P-012-LN-5M-F12BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760094904
24	P-024-LN-5M-F12BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760094946
12	P-012-LN-5M-F12BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760094904
48	P-048-LN-5M-F12BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760094987
6	P-006-LN-8W-F06BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760094847
12	P-012-LN-8W-F12BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760094888
24	P-024-LN-8W-F12BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760094920
48	P-048-LN-8W-F12BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760094961
72	P-072-LN-8W-F12BK/25D	.40/10.1	7.9/20.2	4.0/10.1	607/2700	440	69	103	760095000
144	P-144-LN-8W-F12BK/25D	.60/15.3	12.0/30.6	6.0/15.3	607/2700	440	166	247	760095067
6	P-006-LN-6F-F06BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760094854
12	P-012-LN-6F-F12BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760094896
24	P-024-LN-6F-F12BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760094983
48	P-048-LN-6F-F12BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760094979
72	P-072-LN-6F-F12BK/25D	.40/10.1	7.9/20.2	4.0/10.1	607/2700	440	69	103	760095018
144	P-144-LN-6F-F12BK/25D	.60/15.3	12.0/30.6	6.0/15.3	607/2700	440	166	247	760095075

Single-mode/Multimode Composite (6-288 Fiber) P-XXX-LN-CM-FZZBK/AAaaa/BBbbb/25D Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count

XY = Fiber Grade

5K LazrSPEED 550, 50µm, multimode, OM4
5L LazrSPEED 300, 50µm, multimode, OM3
5M LazrSPEED 150, 50µm, multimode, OM2+

6F OptiSPEED 62.5/125µm, multimode (OM1)
8W TeraSPEED (single-mode)

ZZ = Standard Jacket Color

OR Orange - Multimode or composite containing multimode
AQ Aqua - LazrSPEED or composite containing multimode
SL Slate - Multimode or composite containing multimode

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

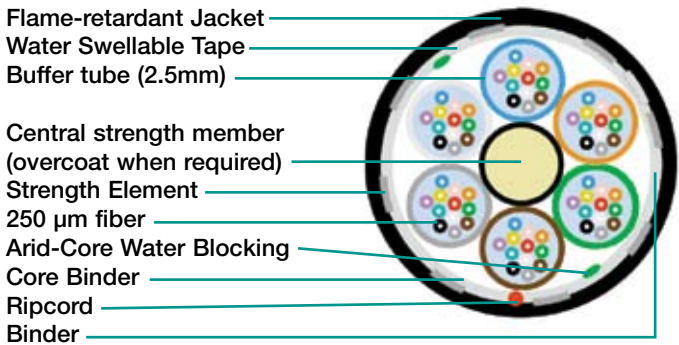
bbb is replaced by multimode fiber count
BB is replaced by multimode type

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.

- Fiber Types & Reference
- Distribution Cables
- Indoor/Outdoor Cables**
- Outside Plant Cables
- InstaPATCH Plus
- G2 Fiber Connectivity
- Additional Fiber Connectivity
- Tools & Consumables

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

Light Duty Riser Indoor/Outdoor Cable

The Light Duty Indoor/Outdoor Fiber Optic Cable provides a cost effective fiber cabling option, while still allowing connectivity ease and superior mid-span accessibility. The cable is designed to endure the rigors of outdoor use, but can also be run directly in riser airspace to eliminate a splice point at the building entrance.

This cable provides seamless migration from the campus to the premises bypassing termination requirements at the building entrance, thereby reducing the total cost of ownership. These low-tensile strength OFNR Indoor/Outdoor cables are designed for installation loads up to 300 lbs (1,335 N) short term and long term loads up to 90 lbs (400 N), (replacing traditional 600 lb cables) making it ideal for Enterprise Campus applications.

The cable's construction utilizes 2.5 mm gel-free tubes that eliminate the use of messy filling gel. All cables are qualified to the requirements of ANSI/ICEA S-87-640 standard for Outside Plant Fiber Cable and ANSI/ICEA S-104-696-2001 standards for Indoor/Outdoor Fiber Cable.

Features and Benefits:

- Fiber Counts 2 – 48 (48 fiber count shown in picture)
- 2.5 mm gel free buffer tubes
- Arid-Core Construction
- Stranded Loose Tube Construction
- Meets ANSI/ICEA S-87-640 and ANSI/ICEA S-104-696-2001 standards
- Operational Temperature -40° to 158° F (-40° to +70° C)



Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius		Installation Load lbs./Newton	Weight		Material ID
			Loaded inch/cm	Unloaded inch/cm		lbs./ 1000'	kg/ 1000'	
2	R-002-LN-5K-F02BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112649
6	R-006-LN-5K-F06BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112656
12	R-012-LN-5K-F12BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112664
24	R-024-LN-5K-F12BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112672
36	R-036-LN-5K-F12BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112680
48	R-048-LN-5K-F12BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112698
2	R-002-LN-5L-F02BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112581
6	R-006-LN-5L-F06BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112599
12	R-012-LN-5L-F12BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112607
24	R-024-LN-5L-F12BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112615
36	R-036-LN-5L-F12BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112623
48	R-048-LN-5L-F12BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112631
2	R-002-LN-5M-F02BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112524
6	R-006-LN-5M-F06BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112532
12	R-012-LN-5M-F12BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112540
24	R-024-LN-5M-F12BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112557
36	R-036-LN-5M-F12BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112565
48	R-048-LN-5M-F12BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112573

Single-mode/Multimode R-**XXX**-LN-CM-FZZBK/25D/LTS/**AAaaa/BBbbb** Custom design - sizes/specs will vary depending on fiber count
Composite (2-48 Fiber)

Variables in the Product Number:

XXX = Total Fiber Count

XY = Fiber Grade	5K LazrSPEED 550, 50µm, multimode, OM4	6F OptiSPEED 62.5/125µm, multimode (OM1)
	5L LazrSPEED 300, 50µm, multimode, OM3	8W TeraSPEED (single-mode)
	5M LazrSPEED 150, 50µm, multimode, OM2+	

ZZ = Standard Jacket Color	OR Orange - Multimode or composite containing multimode	YL Yellow - Single-mode or composite containing single-mode
	AQ Aqua - LazrSPEED or composite containing multimode	Minimum order required for special colors.
	SL Slate - Multimode or composite containing multimode	

For Composites Only	aaa is replaced with single-mode fiber count	bbb is replaced by multimode fiber count
	AA is replaced with single-mode type	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.



Outside Plant Cables

Fiber Types & Reference

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.

Distribution Cables

Our heavy-duty products are engineered to withstand the rigors of environmental extremes.

Indoor/Outdoor Cables

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.

Outside Plant Cables

Central Tube, armored and dielectric up to 96 fibers arranged in easy-to-handle color-coded 12 fiber groups

InstaPATCH Plus

Drop, small lightweight construction to allow ease of installation

G2 Fiber Connectivity

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

Additional Fiber Connectivity

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.

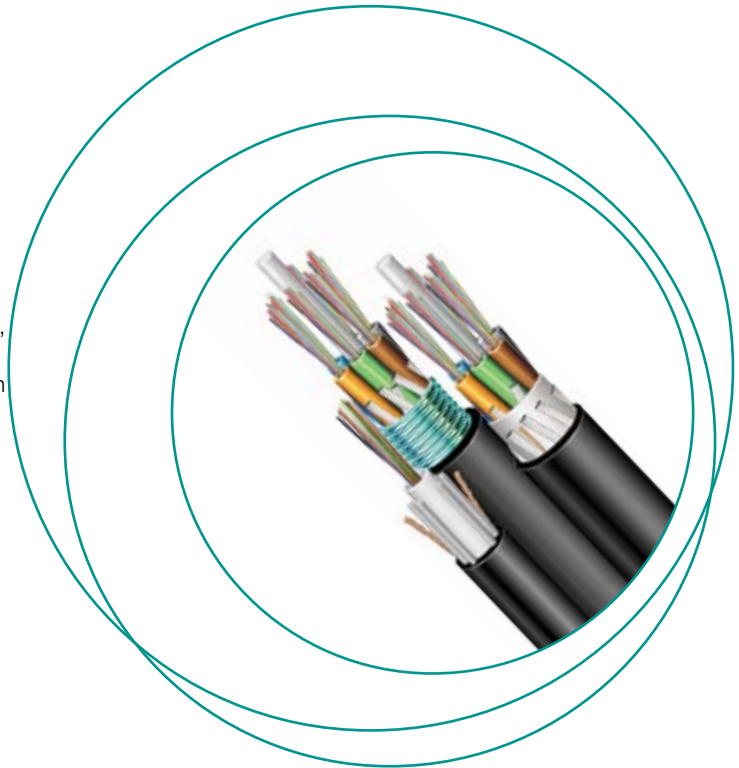
Tools & Consumables

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

Features and Benefits:

- 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



Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius		Max. Tensile Load lbs./Newton	Crush Resistance	Weight		Material ID
			Loaded inch/cm	Unloaded inch/cm			lbs./1000'	kg/1000'	
6	D-006-LN-5K-F06NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760054270
12	D-012-LN-5K-F12NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760054288
24	D-024-LN-5K-F12NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760054296
48	D-048-LN-5K-F12NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760054312
72	D-072-LN-5K-F12NS	.42/10.6	8.3/21.2	4.2/10.6	607/2700	440	49	73	760054338
6	D-006-LN-5L-F06NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760054163
12	D-012-LN-5L-F12NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760054171
24	D-024-LN-5L-F12NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760054189
48	D-048-LN-5L-F12NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760054205
72	D-072-LN-5L-F12NS	.42/10.6	8.3/21.2	4.2/10.6	607/2700	440	49	73	760054221
6	D-006-LN-5M-F06NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760054056
12	D-012-LN-5M-F12NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760054064
24	D-024-LN-5M-F12NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760054072
48	D-048-LN-5M-F12NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760054098
72	D-072-LN-5M-F12NS	.42/10.6	8.3/21.2	4.2/10.6	607/2700	440	49	73	760054114
6	D-006-LN-8W-F06NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760053835
12	D-012-LN-8W-F12NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760053843
24	D-024-LN-8W-F12NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760053850
48	D-048-LN-8W-F12NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760053876
72	D-072-LN-8W-F12NS	.42/10.6	8.3/21.2	4.2/10.6	607/2700	440	49	73	760053892
144	D-144-LN-8W-F12NS	.62/15.8	12.4/31.6	6.2/15.8	607/2700	440	107	160	760053918
288	D-288-LN-8W-F12NS	.71/18.2	14.3/36.4	7.1/18.2	607/2700	440	122	182	760053926
6	D-006-LN-6F-F06NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760053942
12	D-012-LN-6F-F12NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760053959
24	D-024-LN-6F-F12NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760053967
48	D-048-LN-6F-F12NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760053983
72	D-072-LN-6F-F12NS	.42/10.6	8.3/21.2	4.2/10.6	607/2700	440	49	73	760054007
144	D-144-LN-6F-F12NS	.62/15.8	12.4/31.6	6.2/15.8	607/2700	440	107	160	760054023
288	D-288-LN-6F-F12NS	.71/18.2	14.3/36.4	7.1/18.2	607/2700	440	122	182	760054031

Single-mode/Multimode Composite (6-288 Fiber) D-XXX-LN-XY-FZZNS/AAaaa/BBbbb Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count ZZ = Fibers Per Tube

XY = Fiber Grade	5K	LazrSPEED 550, 50µm, multimode, OM4	6F	OptiSPEED 62.5/125µm, multimode (OM1)
	5L	LazrSPEED 300, 50µm, multimode, OM3	8W	TeraSPEED (single-mode)
	5M	LazrSPEED 150, 50µm, multimode, OM2+		

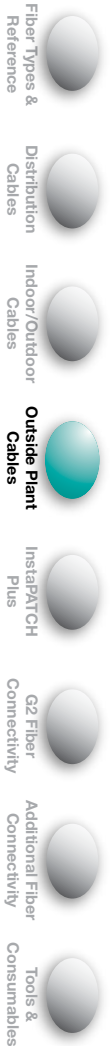
For Composites Only

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

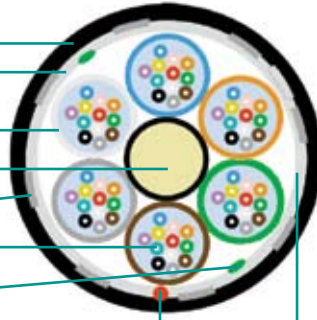
1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua
Fibers 13-24 repeat color sequence with tracer stripe.



- Fiber Types & Reference
- Distribution Cables
- Indoor/Outdoor Cables
- Outside Plant Cables**
- InstaPATCH Plus
- G2 Fiber Connectivity
- Additional Fiber Connectivity
- Tools & Consumables

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

Features and Benefits:

- 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



Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius		Max. Tensile Load lbs./Newton	Crush Resistance	Weight		Material ID
			Loaded inch/cm	Unloaded inch/cm			lbs./ 1000'	kg/ 1000'	
6	D-006-LA-5K-F06NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053728
12	D-012-LA-5K-F12NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053736
24	D-024-LA-5K-F12NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053744
48	D-048-LA-5K-F12NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053769
72	D-072-LA-5K-F12NS	.47/12.1	9.5/24.2	4.7/12.1	607/2700	440	88	131	760053785
6	D-006-LA-5L-F06NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053611
12	D-012-LA-5L-F12NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053629
24	D-024-LA-5L-F12NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053637
48	D-048-LA-5L-F12NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053652
72	D-072-LA-5L-F12NS	.47/12.1	9.5/24.2	4.7/12.1	607/2700	440	88	131	760053678
6	D-006-LA-5M-F06NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053504
12	D-012-LA-5M-F12NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053512
24	D-024-LA-5M-F12NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053520
48	D-048-LA-5M-F12NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053546
72	D-072-LA-5M-F12NS	.47/12.1	9.5/24.2	4.7/12.1	607/2700	440	88	131	760053561
6	D-006-LA-8W-F06NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053272
12	D-012-LA-8W-F12NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053280
24	D-024-LA-8W-F12NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053298
48	D-048-LA-8W-F12NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053314
72	D-072-LA-8W-F12NS	.47/12.1	9.5/24.2	4.7/12.1	607/2700	440	88	131	760053330
144	D-144-LA-8W-F12NS	.68/17.3	13.6/34.6	6.8/17.3	607/2700	440	164	244	760053355
288	D-288-LA-8W-F12NS	.77/19.7	15.5/39.4	7.7/19.7	607/2700	440	187	279	760053363
6	D-006-LA-6F-F06NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053389
12	D-012-LA-6F-F12NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053397
24	D-024-LA-6F-F12NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053405
48	D-048-LA-6F-F12NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053421
72	D-072-LA-6F-F12NS	.47/12.1	9.5/24.2	4.7/12.1	607/2700	440	88	131	760053447
144	D-144-LA-6F-F12NS	.68/17.3	13.6/34.6	6.8/17.3	607/2700	440	164	244	760053470
288	D-288-LA-6F-F12NS	.77/19.7	15.5/39.4	7.7/19.7	607/2700	440	187	279	760053488

Single-mode/Multimode
Composite (6-288 Fiber)

D-XXX-LA-CM-FZZNS/AAaaa/BBbbb

Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count

ZZ = Fibers Per Tube

XY = Fiber Grade

5K LazrSPEED 550, 50µm, multimode, OM4
5L LazrSPEED 300, 50µm, multimode, OM3
5M LazrSPEED 150, 50µm, multimode, OM2+

6F OptiSPEED 62.5/125µm, multimode (OM1)
8W TeraSPEED (single-mode)

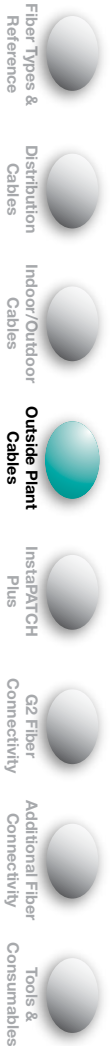
For Composites Only

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.



- Fiber Types & Reference
- Distribution Cables
- Indoor/Outdoor Cables
- Outside Plant Cables**
- InstaPATCH Plus
- G2 Fiber Connectivity
- Additional Fiber Connectivity
- Tools & Consumables

All Dry Stranded Loose Tube Armored Cable (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



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 Arid-Core Stranded Loose Tube Non-Armored All Dielectric

Features and Benefits:

- 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
- **MDPE jacket (also available in HDPE)**
- **RDUP Listed**



Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius		Max. Tensile Load lbs./Newton	Crush Resistance	Weight		Material ID
			Loaded inch/cm	Unloaded inch/cm			lbs./1000'	kg/1000'	
6	O-006-LN-5K-F06NS	.44/11.3	8.9/22.6	4.4/11.3	607/2700	440	57	85	760007369
12	O-012-LN-5K-F12NS	.44/11.3	8.9/22.6	4.4/11.3	607/2700	440	57	85	760007377
24	O-024-LN-5K-F12NS	.44/11.3	8.9/22.6	4.4/11.3	607/2700	440	57	85	760007393
48	O-048-LN-5K-F12NS	.44/11.3	8.9/22.6	4.4/11.3	607/2700	440	57	85	760007419
72	O-072-LN-5K-F12NS	.48/12.3	9.7/24.6	4.8/12.3	607/2700	440	70	104	760007427
6	O-006-LN-5L-F06NS	.44/11.3	8.9/22.6	4.4/11.3	607/2700	440	57	85	760002790
12	O-012-LN-5L-F12NS	.44/11.3	8.9/22.6	4.4/11.3	607/2700	440	57	85	760002808
24	O-024-LN-5L-F12NS	.44/11.3	8.9/22.6	4.4/11.3	607/2700	440	57	85	760002824
48	O-048-LN-5L-F12NS	.44/11.3	8.9/22.6	4.4/11.3	607/2700	440	57	85	760002840
72	O-072-LN-5L-F12NS	.48/12.3	9.7/24.6	4.8/12.3	607/2700	440	70	104	760002857
6	O-006-LN-8W-F06NS	.44/11.3	8.9/22.6	4.4/11.3	607/2700	440	57	85	760002584
12	O-012-LN-8W-F12NS	.44/11.3	8.9/22.6	4.4/11.3	607/2700	440	57	85	760002592
24	O-024-LN-8W-F12NS	.44/11.3	8.9/22.6	4.4/11.3	607/2700	440	57	85	760002618
48	O-048-LN-8W-F12NS	.44/11.3	8.9/22.6	4.4/11.3	607/2700	440	57	85	760002634
72	O-072-LN-8W-F12NS	.48/12.3	9.7/24.6	4.8/12.3	607/2700	440	70	104	760002642
144	O-144-LN-8W-F12NS	.73/18.5	14.5/37.0	7.3/18.5	607/2700	440	154	230	760002667
288	O-288-LN-8W-F12NS	.84/21.5	16.9/43.0	8.4/21.5	607/2700	440	190	283	760002675
6	O-006-LN-6F-F06NS	.44/11.3	8.9/22.6	4.4/11.3	607/2700	440	57	85	760002691
12	O-012-LN-6F-F12NS	.44/11.3	8.9/22.6	4.4/11.3	607/2700	440	57	85	760002709
24	O-024-LN-6F-F12NS	.44/11.3	8.9/22.6	4.4/11.3	607/2700	440	57	85	760002725
48	O-048-LN-6F-F12NS	.44/11.3	8.9/22.6	4.4/11.3	607/2700	440	57	85	760002741
72	O-072-LN-6F-F12NS	.48/12.3	9.7/24.6	4.8/12.3	607/2700	440	70	104	760002758
144	O-144-LN-6F-F12NS	.73/18.5	14.5/37.0	7.3/18.5	607/2700	440	154	230	760002675
288	O-288-LN-6F-F12NS	.84/21.5	16.9/43.0	8.4/21.5	607/2700	440	190	283	760002774

Single-mode/Multimode O-XXX-LN-CM-FZZNS/AAaaa/BBbbb Custom design - sizes/specs will vary depending on fiber count
 Composite (6-288 Fiber)

Variables in the Product Number:

XXX = Total Fiber Count ZZ = Fibers Per Tube

XY = Fiber Grade	5K LazrSPEED 550, 50µm, multimode, OM4	6F OptiSPEED 62.5/125µm, multimode (OM1)
	5L LazrSPEED 300, 50µm, multimode, OM3	8W TeraSPEED (single-mode)
	5M LazrSPEED 150, 50µm, multimode, OM2+	

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

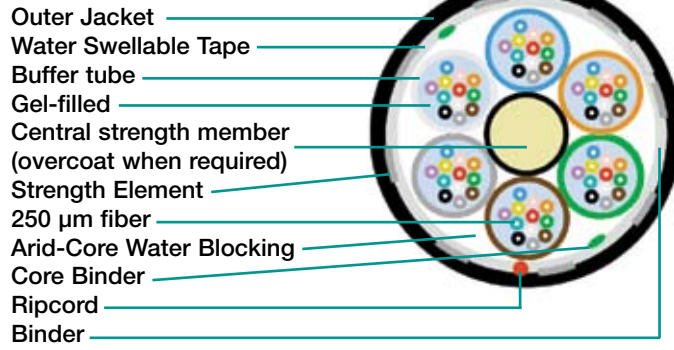
Fiber Identification Colors

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.



- Fiber Types & Reference
- Distribution Cables
- Indoor/Outdoor Cables
- Outside Plant Cables**
- InstaPATCH Plus
- G2 Fiber Connectivity
- Additional Fiber Connectivity
- Tools & Consumables

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

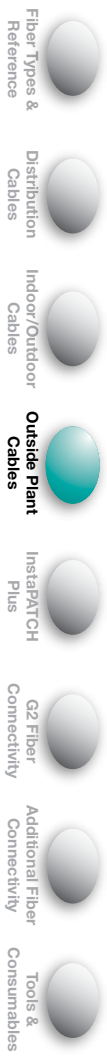
Outside Plant Arid-Core Stranded Loose Tube Armored

Features and Benefits:

- 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



Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius		Max. Tensile Load lbs./Newton	Crush Resistance	Weight		Material ID
			Loaded inch/cm	Unloaded inch/cm			lbs./1000'	kg/1000'	
6	O-006-LA-5K-F06NS	.50/12.8	10.0/25.6	5.0/12.8	607/2700	440	99	148	760007252
12	O-012-LA-5K-F12NS	.50/12.8	10.0/25.6	5.0/12.8	607/2700	440	99	148	760007260
24	O-024-LA-5K-F12NS	.50/12.8	10.0/25.6	5.0/12.8	607/2700	440	99	148	760007286
48	O-048-LA-5K-F12NS	.50/12.8	10.0/25.6	5.0/12.8	607/2700	440	99	148	760007302
72	O-072-LA-5K-F12NS	.54/13.8	10.8/27.6	5.4/13.8	607/2700	440	115	172	760007310
6	O-006-LA-5L-F06NS	.50/12.8	10.0/25.6	5.0/12.8	607/2700	440	99	148	760002477
12	O-012-LA-5L-F12NS	.50/12.8	10.0/25.6	5.0/12.8	607/2700	440	99	148	760002485
24	O-024-LA-5L-F12NS	.78/20.0	15.7/40.0	7.8/20.0	607/2700	440	222	331	760002501
48	O-048-LA-5L-F12NS	.50/12.8	10.0/25.6	5.0/12.8	607/2700	440	99	148	760002527
72	O-072-LA-5L-F12NS	.54/13.8	10.8/27.6	5.4/13.8	607/2700	440	115	172	760002535
6	O-006-LA-8W-F06NS	.50/12.8	10.0/25.6	5.0/12.8	607/2700	440	99	148	760002261
12	O-012-LA-8W-F12NS	.50/12.8	10.0/25.6	5.0/12.8	607/2700	440	99	148	760002279
24	O-024-LA-8W-F12NS	.90/23.0	18.1/46.0	9.0/23.0	607/2700	440	268	399	760002295
48	O-048-LA-8W-F12NS	.50/12.8	10.0/25.6	5.0/12.8	607/2700	440	99	148	760002311
72	O-072-LA-8W-F12NS	.54/13.8	10.8/27.6	5.4/13.8	607/2700	440	115	172	760002329
144	O-144-LA-8W-F12NS	.78/20.0	15.7/40.0	7.8/20.0	607/2700	440	222	331	760002345
288	O-288-LA-8W-F12NS	.90/23.0	18.1/46.0	9.0/23.0	607/2700	440	268	399	760002552
6	O-006-LA-6F-F06NS	.50/12.8	10.0/25.6	5.0/12.8	607/2700	440	99	148	760002378
12	O-012-LA-6F-F12NS	.50/12.8	10.0/25.6	5.0/12.8	607/2700	440	99	148	760002386
24	O-024-LA-6F-F12NS	.78/20.0	15.7/40.0	7.8/20.0	607/2700	440	222	331	760002402
48	O-048-LA-6F-F12NS	.50/12.8	10.0/25.6	5.0/12.8	607/2700	440	99	148	760002428
72	O-072-LA-6F-F12NS	.54/13.8	10.8/27.6	5.4/13.8	607/2700	440	115	172	760002436
144	O-144-LA-6F-F12NS	.78/20.0	15.7/40.0	7.8/20.0	607/2700	440	222	331	760002893
288	O-288-LA-6F-F12NS	.90/23.0	18.1/46.0	9.0/23.0	607/2700	440	268	399	760002451



Single-mode/Multimode Composite (6-288 Fiber) O-XXX-LA-CM-FZZNS/AAaaa/BBbbb Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count

ZZ = Fibers Per Tube

XY = Fiber Grade

5K LazrSPEED 550, 50µm, multimode, OM4
5L LazrSPEED 300, 50µm, multimode, OM3
5M LazrSPEED 150, 50µm, multimode, OM2+

6F OptiSPEED 62.5/125µm, multimode (OM1)
8W TeraSPEED (single-mode)

For Composites Only

aaa is replaced with single-mode fiber count
AA is replaced with single-mode type

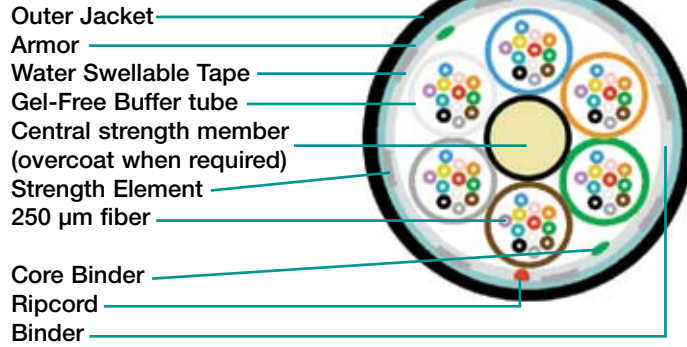
bbb is replaced by multimode fiber count
BB is replaced by multimode type

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.

- Fiber Types & Reference
- Distribution Cables
- Indoor/Outdoor Cables
- **Outside Plant Cables**
- InstaPATCH Plus
- G2 Fiber Connectivity
- Additional Fiber Connectivity
- Tools & Consumables

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

Outside Plant Arid-Core Mini Stranded Loose Tube Non-Armored All Dielectric

Features and Benefits:

- 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 2.0 mm for 2-144 fiber counts



Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius		Max. Tensile Load lbs./Newton	Crush Resistance	Weight		Material ID
			Loaded inch/cm	Unloaded inch/cm			lbs./ 1000'	kg/ 1000'	
12	0-012-LN-5K-F12NS/20T	.37/9.5	7.5/19.0	3.7/9.5	607/2700	440	48	72	760128280
24	0-024-LN-5K-F12NS/20T	.37/9.5	7.5/19.0	3.7/9.5	607/2700	440	48	72	760128298
144	0-144-LN-5K-F12NS/20T	.52/13.3	10.4/26.5	5.2/13.3	607/2700	440	92	138	760128306
12	0-012-LN-5L-F12NS/20T	.37/9.5	7.5/19.0	3.7/9.5	607/2700	440	48	72	760128256
24	0-024-LN-5L-F12NS/20T	.37/9.5	7.5/19.0	3.7/9.5	607/2700	440	48	72	760128264
144	0-144-LN-5L-F12NS/20T	.52/13.3	10.4/26.5	5.2/13.3	607/2700	440	92	138	760128272
12	0-012-LN-8W-F12NS/20T	.37/9.5	7.5/19.0	3.7/9.5	607/2700	440	48	72	760128223
24	0-024-LN-8W-F12NS/20T	.37/9.5	7.5/19.0	3.7/9.5	607/2700	440	48	72	760128231
144	0-144-LN-8W-F12NS/20T	.52/13.3	10.4/26.5	5.2/13.3	607/2700	440	92	138	760128249

Single-mode/Multimode Composite (6-288 Fiber) O-**XXX**-LN-XY-FZZNS/**AAaaa**/**BBbbb** Customdesign - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count **ZZ** = Fibers Per Tube

XY = Fiber Grade	5K	5L	5M	6F	8W
	LazrSPEED 550, 50µm, multimode, OM4	LazrSPEED 300, 50µm, multimode, OM3	LazrSPEED 150, 50µm, multimode, OM2+	OptiSPEED 62.5/125µm, multimode (OM1)	TeraSPEED (single-mode)

For Composites Only **aaa** is replaced with single-mode fiber count **bbb** is replaced by multimode fiber count
AA is replaced with single-mode type **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.

*Armored versions of this cable are available. Contact your local CommScope representative for more information.



Light Duty Outside Plant Cable



The Light Duty Outside Plant Fiber Optic Cable provides a cost effective option, while still allowing connectivity ease and superior mid-span accessibility. These low tensile strength Outdoor cables are designed for installation loads up to 300 lbs (1,335 N) short term and long term loads up to 90 lbs (400 N), (replacing traditional 600 lb cables) making it ideal for Enterprise Campus applications. The cable is designed to endure the rigors of outdoor use.

The cable's construction utilizes 2.5 mm gel-free tubes that eliminate the use of messy filling gel. All cables meet the mechanical and environmental requirements of ANSI/ICEA S-87-640 Standard for Optical Fiber Outside Plant Communications Cable.

Features and Benefits:

- Fiber Counts 2 – 48 (48 fiber count shown in picture)
- 2.5 mm gel free buffer tubes
- Arid-Core Construction
- Stranded Loose Tube Construction
- Meets ANSI/ICEA S-87-640 requirements
- Operational Temperature -40° to 158° F (-40° to +70° C)

Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius		Installation Load lbs./Newton	Weight		Material ID
			Loaded inch/cm	Unloaded inch/cm		lbs./ 1000'	kg/ 1000'	
2	D-002-LN-5K-F02NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112946
6	D-006-LN-5K-F06NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112953
12	D-012-LN-5K-F12NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112961
24	D-024-LN-5K-F12NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112979
36	D-036-LN-5K-F12NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112987
48	D-048-LN-5K-F12NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112995
2	D-002-LN-5L-F02NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112888
6	D-006-LN-5L-F06NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112896
12	D-012-LN-5L-F12NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112904
24	D-024-LN-5L-F12NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112912
36	D-036-LN-5L-F12NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112920
48	D-048-LN-5L-F12NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112938
2	D-002-LN-5M-F02NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112821
6	D-006-LN-5M-F06NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112839
12	D-012-LN-5M-F12NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112847
24	D-024-LN-5M-F12NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112845
36	D-036-LN-5M-F12NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112862
48	D-048-LN-5M-F12NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112870
2	D-002-LN-8W-F02NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112706
6	D-006-LN-8W-F06NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112714
12	D-012-LN-8W-F12NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112722
24	D-024-LN-8W-F12NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112730
36	D-036-LN-8W-F12NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112748
48	D-048-LN-8W-F12NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112755

Single-mode/Multimode D-XXX-LN-CM-F12NS/20T/LTS/AAaaa/BBbbb Custom design - sizes/specs will vary depending on fiber count
Composite (2-48 Fiber)

Variables in the Product Number:

XXX = Total Fiber Count	ZZ = Fibers Per Tube	
XY = Fiber Grade	5K LazrSPEED 550, 50µm, multimode, OM4	6F OptiSPEED 62.5/125µm, multimode (OM1)
	5L LazrSPEED 300, 50µm, multimode, OM3	8W TeraSPEED (single-mode)
	5M LazrSPEED 150, 50µm, multimode, OM2+	

For Composites Only **aaa** is replaced with single-mode fiber count **bbb** is replaced by multimode fiber count
AA is replaced with single-mode type **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.

Mini All-Dielectric High Tensile Strength Outside Plant Stranded Loose Tube

Features and Benefits:

- 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 12 – 144 (72 fiber count shown below)



Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius		Installation Load lbs./Newton	Weight		Material ID
			Loaded inch/cm	Unloaded inch/cm		lbs./1000'	kg/1000'	
12	O-012-LN-8W-F12NS/20T/HTS	0.45/11.5	9.06/23.0	4.53/11.5	1000/4448	68	101	760100677
24	O-024-LN-8W-F12NS/20T/HTS	0.45/11.5	9.06/23.0	4.53/11.5	1000/4448	68	101	760100685
48	O-048-LN-8W-F12NS/20T/HTS	0.45/11.5	9.06/23.0	4.53/11.5	1000/4448	68	101	760100693
96	O-096-LN-8W-F12NS/20T/HTS	12.4/0.49	24.8/9.8	12.4/4.9	1000/4448	79	117	760100701
144	O-144-LN-8W-F12NS/20T/HTS	0.58/14.7	11.6/29.4	5.79/14.7	1000/4448	113	168	760100719

Single-mode/Multimode O-XXX-LN-CM-F12NS/20T/HTS/AAaaa/BBbbb Custom design - sizes/specs will vary depending on fiber count
Composite (2-144 Fiber)

Variables in the Product Number:

XXX = Total Fiber Count

ZZ = Fibers Per Tube

XY = Fiber Grade

5K LazrSPEED 550, 50µm, multimode, OM4
5L LazrSPEED 300, 50µm, multimode, OM3
5M LazrSPEED 150, 50µm, multimode, OM2+

6F OptiSPEED 62.5/125µm, multimode (OM1)
8W TeraSPEED (single-mode)

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.

Mini Indoor/Outdoor Stranded Loose Tube Cable (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

Outside Plant Specialty Designs Double Jacket Single Armor Gel-Free Stranded Loose Tube

Features and Benefits:

- 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 6-288 fiber counts
- Double jacket/single armor version RDUP Listed



Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius		Max. Tensile Load lbs./Newton	Crush Resistance	Weight		Material ID
			Loaded inch/cm	Unloaded inch/cm			lbs./1000'	kg/1000'	
6	D-006-L2-8W-F06NS	.59/15.1	11.9/30.2	5.9/15.1	607/2700	440	131	196	760103861
12	D-012-L2-8W-F12NS	.59/15.1	11.9/30.2	5.9/15.1	607/2700	440	131	196	760103879
24	D-024-L2-8W-F12NS	.59/15.1	11.9/30.2	5.9/15.1	607/2700	440	131	196	760103887
48	D-048-L2-8W-F12NS	.59/15.1	11.9/30.2	5.9/15.1	607/2700	440	131	196	760103903
72	D-072-L2-8W-F12NS	.61/15.5	12.2/31.0	6.1/15.5	607/2700	440	139	208	760103911
144	D-144-L2-8W-F12NS	.81/20.7	16.2/41.4	8.1/20.7	607/2700	440	231	345	760103937
288	D-288-L2-8W-F12NS	.91/23.1	18.1/46.2	9.1/23.1	607/2700	440	264	393	760103945

Single-mode/Multimode Composite (6-288 Fiber)

D-XXX-L2-CM-FZZNS/AAaaa/BBbbb

Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count

ZZ = Fibers Per Tube

XY = Fiber Grade

5K LazrSPEED 550, 50µm, multimode, OM4
5L LazrSPEED 300, 50µm, multimode, OM3
5M LazrSPEED 150, 50µm, multimode, OM2+

6F OptiSPEED 62.5/125µm, multimode (OM1)
8W TeraSPEED (single-mode)

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.

Double Jacket/Single Armor Loose Tube Cable (72 Fiber Version Shown)

Outer & inner jackets

Armor

Water swellable tape

Core binder

Gel-free Buffer tube

Central strength member

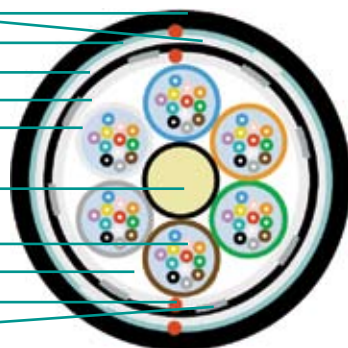
(overcoat when required)

250 µm fiber

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 Central Tube Non-Armored All Dielectric

Robust constructions offer excellent protection of fibers.



Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius		Max. Tensile Load lbs./Newton	Crush Resistance	Weight		Material ID
			Loaded inch/cm	Unloaded inch/cm			lbs./1000'	kg/1000'	
6	O-006-CN-5L-F06NS	.40/10.1	7.9/20.2	4.0/10.1	607/2700	440	63	94	700012347
12	O-012-CN-5L-F12NS	.40/10.1	7.9/20.2	4.0/10.1	607/2700	440	63	94	700012354
24	O-024-CN-5L-F12NS	.40/10.1	7.9/20.2	4.0/10.1	607/2700	440	63	94	700012362
48	O-048-CN-5L-F12NS	.47/12.1	9.5/24.2	4.7/12.1	607/2700	440	86	128	700012370
6	O-006-CN-8W-F06NS	.40/10.1	7.9/20.2	4.0/10.1	607/2700	440	63	94	760004010
12	O-012-CN-8W-F12NS	.40/10.1	7.9/20.2	4.0/10.1	607/2700	440	63	94	760004036
24	O-024-CN-8W-F12NS	.40/10.1	7.9/20.2	4.0/10.1	607/2700	440	63	94	760004044
48	O-048-CN-8W-F12NS	.47/12.1	9.5/24.2	4.7/12.1	607/2700	440	86	128	760004069
72	O-072-CN-8W-F12NS	.59/15.0	11.8/30.0	5.9/15.0	607/2700	440	152	226	760004077
6	O-006-CN-6F-F06NS	.40/10.1	7.9/20.2	4.0/10.1	607/2700	440	63	94	700010721
12	O-012-CN-6F-F12NS	.40/10.1	7.9/20.2	4.0/10.1	607/2700	440	63	94	700010705
24	O-024-CN-6F-F12NS	.40/10.1	7.9/20.2	4.0/10.1	607/2700	440	63	94	700010689
48	O-048-CN-6F-F12NS	.47/12.1	9.5/24.2	4.7/12.1	607/2700	440	86	128	700010663
72	O-072-CN-6F-F12NS	.59/15.0	11.8/30.0	5.9/15.0	607/2700	440	152	226	700010648

Single-mode/Multimode Composite (6-288 Fiber) O-XXX-CN-CM-FZZNS/AAaaa/BBbbb Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count

ZZ = Fibers Per Tube

XY = Fiber Grade

- 5K LazrSPEED 550, 50µm, multimode, OM4
- 5L LazrSPEED 300, 50µm, multimode, OM3
- 5M LazrSPEED 150, 50µm, multimode, OM2+

- 6F OptiSPEED 62.5/125µm, multimode (OM1)
- 8W TeraSPEED (single-mode)

For Composites Only

- aaa is replaced with single-mode fiber count
- AA is replaced with single-mode type

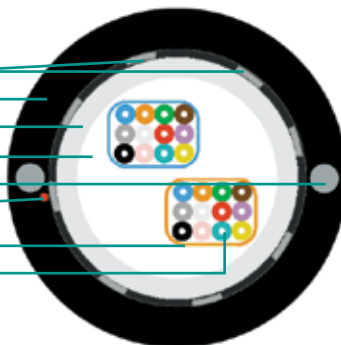
- bbb is replaced by multimode fiber count
- BB is replaced by multimode type

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.

Central Tube Non-Armored All Dielectric Cable (24 Fiber Version Shown)

- 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

Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPATCH Plus

G2 Fiber Connectivity

Additional Fiber Connectivity

Tools & Consumables

Outside Plant Central Tube Armored

Robust constructions offer excellent protection of fibers. Corrugated steel tape armor is strong, yet flexible



Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius		Max. Tensile Load lbs./Newton	Crush Resistance	Weight		Material ID
			Loaded inch/cm	Unloaded inch/cm			lbs./1000'	kg/1000'	
6	O-006-CA-5M-F06NS	.43/11.0	8.6/22.0	4.3/11.0	607/2700	440	93	138	760015800
12	O-012-CA-5M-F12NS	.43/11.0	8.6/22.0	4.3/11.0	607/2700	440	93	138	760017202
6	O-006-CA-8W-F06NS	.43/11.0	8.6/22.0	4.3/11.0	607/2700	440	93	138	760003921
12	O-012-CA-8W-F06NS	.43/11.0	8.6/22.0	4.3/11.0	607/2700	440	93	138	760003947
24	O-024-CA-8W-F12NS	.43/11.0	8.6/22.0	4.3/11.0	607/2700	440	93	138	760003954
48	O-048-CA-8W-F12NS	.51/13.0	10.2/26.0	5.1/13.0	607/2700	440	121	181	760003970
72	O-072-CA-8W-F12NS	.59/15.0	11.8/30.0	5.9/15.0	607/2700	440	152	226	760003988
6	O-006-CA-6F-F06NS	.43/11.0	8.6/22.0	4.3/11.0	607/2700	440	93	138	760010614
12	O-012-CA-6F-F12NS	.43/11.0	8.6/22.0	4.3/11.0	607/2700	440	93	138	700010598
24	O-024-CA-6F-F12NS	.43/11.0	8.6/22.0	4.3/11.0	607/2700	440	93	138	700010580
48	O-048-CA-6F-F12NS	.51/13.0	10.2/26.0	5.1/13.0	607/2700	440	121	181	700010564
72	O-072-CA-6F-F12NS	.59/15.0	11.8/30.0	5.9/15.0	607/2700	440	152	226	700010556

Single-mode/Multimode Composite (6-288 Fiber) O-XXX-CA-CM-FZZNS/AAaaa/BBbbb Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count

ZZ = Fibers Per Tube

XY = Fiber Grade

5K LazrSPEED 550, 50µm, multimode, OM4
5L LazrSPEED 300, 50µm, multimode, OM3
5M LazrSPEED 150, 50µm, multimode, OM2+

6F OptiSPEED 62.5/125µm, multimode (OM1)
8W TeraSPEED (single-mode)

For Composites Only

aaa is replaced with single-mode fiber count
AA is replaced with single-mode type

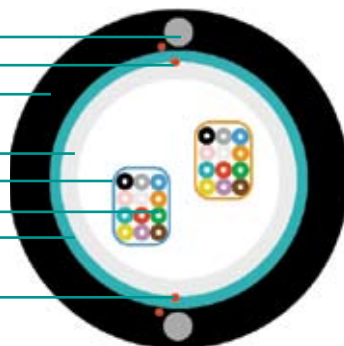
bbb is replaced by multimode fiber count
BB is replaced by multimode type

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.

Central Tube Armored Cable (24 Fiber Version Shown)

- Steel strength members
- Armor ripcord
- Outer jacket
- Water blocking gel
- Central buffer tube (4mm)
- Color-coded binder thread
- 250 µm fiber
- Armor
- Jacket ripcord



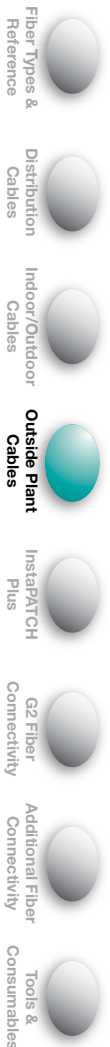
Mechanical Properties

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 All-Dielectric Drop

Features and Benefits:

- Ideal for drop cable applications
- Meets ICEA 717 Standard for drop cables
- Designed with an industry standard 3.0 mm buffer tube



Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius		Max. Tensile Load lbs./Newton	Crush Resistance	Weight	
			Loaded inch/cm	Unloaded inch/cm			lbs./1000'	kg/1000'
2	O-002-DN-XY-FZZNS/30T	.34/8.7	13.7/34.8	6.8/17.4	300/1335	440	46	69
4	O-004-DN-XY-FZZNS/30T	.34/8.7	13.7/34.8	6.8/17.4	300/1335	440	46	69
6	O-006-DN-XY-FZZNS/30T	.34/8.7	13.7/34.8	6.8/17.4	300/1335	440	46	69
8	O-008-DN-XY-FZZNS/30T	.34/8.7	13.7/34.8	6.8/17.4	300/1335	440	46	69
12	O-012-DN-XY-FZZNS/30T	.34/8.7	13.7/34.8	6.8/17.4	300/1335	440	46	69

Single-mode/Multimode Composite (2-12 Fiber) O-XXX-DN-CM-FZZNS/AAaaa/BBbbb/30T Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count

ZZ = Fibers Per Tube

XY = Fiber Grade

5K LazrSPEED 550, 50µm, multimode, OM4
5L LazrSPEED 300, 50µm, multimode, OM3
5M LazrSPEED 150, 50µm, multimode, OM2+

6F OptiSPEED 62.5/125µm, multimode (OM1)
8W TeraSPEED (single-mode)

For Composites Only

aaa is replaced with single-mode fiber count
AA is replaced with single-mode type

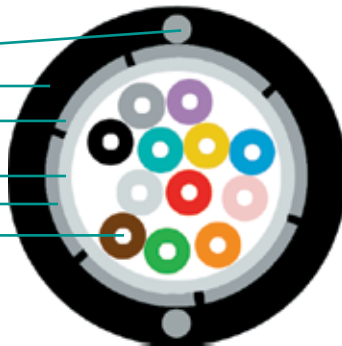
bbb is replaced by multimode fiber count
BB is replaced by multimode type

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

Outside Plant Self-Supporting Figure 8 Stranded Loose Tube Armored

The self-supporting Figure 8 stranded loose tube cable is constructed with industry standard 3 mm gel-filled, buffer tubes, stranded around a central strength member. The armored version has the cable armored with a corrugated, polymer coated steel tape. Arid-Core water blocking technology protects fibers from moisture and reduces termination effort.



Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Unloaded inch/cm	Max. Tensile Load lbs./Newton	Crush Resistance	Weight lbs./1000'	kg/1000'	Material ID
6	M-048-LA-5K-F06NS	.35/8.9	5.2/13.1	10.3/26.2	607/2700	440	257	382	760069963
6	M-048-LA-5L-F06NS	.35/8.9	5.2/13.1	10.3/26.2	607/2700	440	257	382	760035832
12	M-012-LA-5L-F12NS	.35/8.9	5.2/13.1	10.3/26.2	607/2700	440	257	382	760072140
24	M-024-LA-5L-F12NS	.35/8.9	5.2/13.1	10.3/26.2	607/2700	440	257	382	760072157
48	M-048-LA-5L-F12NS	.89/22.8	18.2/46.4	9.1/23.2	607/2700	440	213	318	760072165
6	M-048-LA-8W-F06NS	.35/8.9	5.2/13.1	10.3/26.2	607/2700	440	257	382	760032128
12	M-012-LA-8W-F12NS	.35/8.9	5.2/13.1	10.3/26.2	607/2700	440	257	382	760013680
24	M-024-LA-8W-F12NS	.35/8.9	5.2/13.1	10.3/26.2	607/2700	440	257	382	760026328
48	M-048-LA-8W-F12NS	.89/22.8	18.2/46.4	9.1/23.2	607/2700	440	213	318	760055434
288	M-288-LA-8W-F12NS	1.30/33.0	34.2/87.2	17.1/43.6	607/2700	440	349	520	760083006

Single-mode/Multimode Composite (6-288 Fiber) M-XXX-LA-CM-FZZNS/AAaaa/BBbbb Customdesign - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count

ZZ = Fibers Per Tube

XY = Fiber Grade

5K LazrSPEED 550, 50µm, multimode, OM4
5L LazrSPEED 300, 50µm, multimode, OM3
5M LazrSPEED 150, 50µm, multimode, OM2+

6F OptiSPEED 62.5/125µm, multimode (OM1)
8W TeraSPEED (single-mode)

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.

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	1.0% Sag	2.0% Sag	3.0% Sag
6	150	802	401	200	134
12	150	802	401	200	134
24	150	802	401	200	134
48	150	802	401	200	134
72	150	851	425	213	142
144	150	1117	559	279	186
288	150	1310	655	328	218

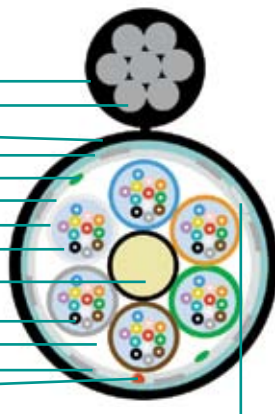
Values were calculated at 70°F (21°C)

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



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 Dielectric versions of this cable are available. Contact your local CommScope representative for more information.

Outside Plant All-Dielectric Self Supporting ADSS Cable

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.



Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius		Max. Tensile Load lbs./Newton	Crush Resistance	Weight	
			Loaded inch/cm	Unloaded inch/cm			lbs./ 1000'	kg/ 1000'
6	S-006-LN-XY-F06NS/NFB	.46/11.8	9.3/23.6	4.6/11.8	607/2700	440	66	99
12	S-012-LN-XY-F12NS/NFB	.46/11.8	9.3/23.6	4.6/11.8	607/2700	440	66	99
24	S-024-LN-XY-F12NS/NFB	.46/11.8	9.3/23.6	4.6/11.8	607/2700	440	66	99
48	S-048-LN-XY-F12NS/NFB	.46/11.8	9.3/23.6	4.6/11.8	607/2700	440	66	99
60	S-060-LN-XY-F12NS/NFB	.46/11.8	9.3/23.6	4.6/11.8	607/2700	440	66	99

Single-mode/Multimode S-XXX-LN-CM-FZZNS/AAaaa/BBbbb Customdesign - sizes/specs will vary depending on fiber count
Composite (2-288 Fiber)

Variables in the Product Number:

XXX = Total Fiber Count

ZZ = Fibers Per Tube

XY = Fiber Grade

5K LazrSPEED 550, 50µm, multimode, OM4
5L LazrSPEED 300, 50µm, multimode, OM3
5M LazrSPEED 150, 50µm, multimode, OM2+

6F OptiSPEED 62.5/125µm, multimode (OM1)
8W TeraSPEED (single-mode)

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

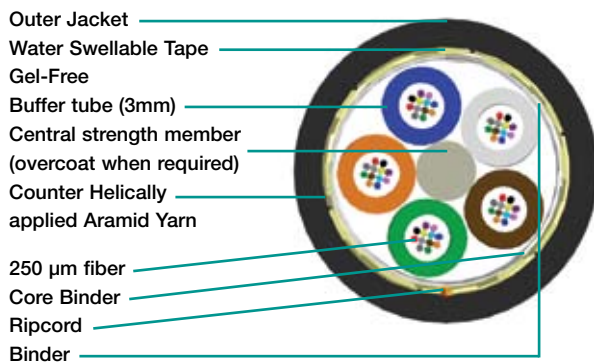
Fiber Identification Colors

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.

Sag & Tension Examples

Fiber Count	NESCHeavy		NESCMedium		NESCLight	
	Max Span ft (m)	Total Sag at NESCLoading (%)	Max Span ft (m)	Total Sag at NESCLoading (%)	Max Span ft (m)	Total Sag at NESCLoading (%)
2 - 60 Fiber	374 (114)	5.04	594 (181)	4.62	817 (249)	4.18

All-Dielectric Self Supporting ADSS (60 Fiber Version Shown)

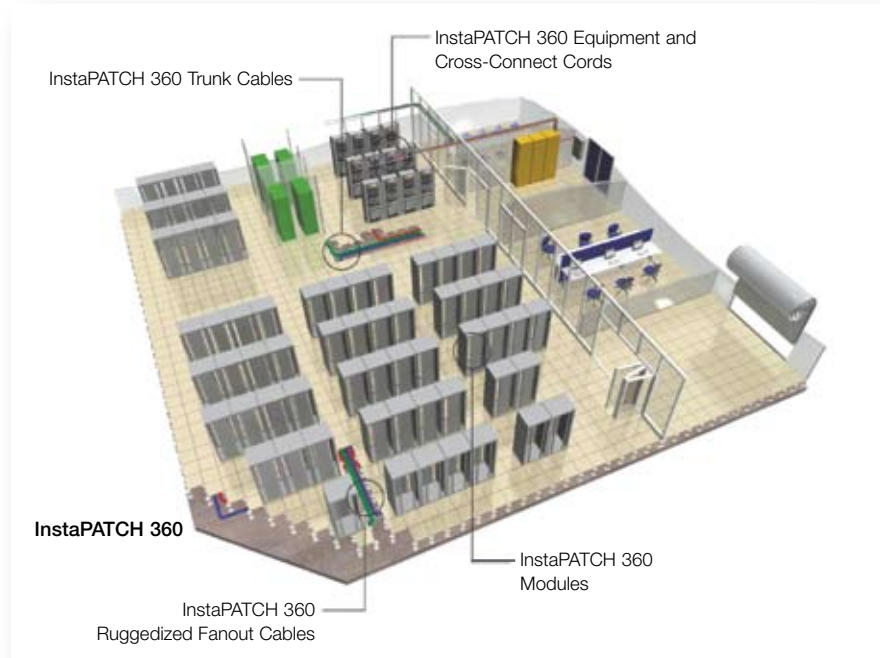


Mechanical Properties

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
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

SYSTIMAX 360

InstaPATCH® 360 Fiber System



The SYSTIMAX InstaPATCH® 360, developed by CommScope Labs, is designed to support locations, such as data centers, that require high-density, rapid deployment and high performance. The InstaPATCH 360 System incorporates SYSTIMAX LazrSPEED® multimode, OptiSPEED® multimode 50µm and TeraSPEED® single-mode fiber technologies to support today's most demanding applications. InstaPATCH 360 Fiber Solution delivers low loss performance as a standard, along with increased density.

The pre-terminated hardware of the SYSTIMAX LazrSPEED Solution is built with LazrSPEED 550 OM4 multimode fiber, providing for the capability to support 10Gbps Ethernet applications, as well as emerging 40Gbps/100Gbps Ethernet and 16Gbps Fibre Channel standards. The pre-terminated hardware has "Low-Loss" performance characteristics, coupled with high bandwidth, to provide Best-in-Class application support. Trunk cables are available in LazrSPEED 150, 300 and 550 performance grades to address the wide range of requirements of system operators.

The InstaPATCH 360 System includes patch panels and shelves, modules, trunk cables, ruggedized fanouts, array cords and fiber patch cords. The system requires no special components to manage and maintain polarity within each channel.

The InstaPATCH 360 modules are directly compatible with the SYSTIMAX G2 Modular Cassette System, providing for the capability to install four - 24 LC modules to achieve 96 LC connections in a one rack unit (1U) shelf or 16 Modules, allowing up to 384 fibers in 4 rack units (4U) when utilizing LC-LC patching.

Pre-terminated with MPO connectors and offered in customer-specified lengths, the InstaPATCH 360 trunk cables are offered in 12, 24, 36, 48, 72, 96, and 144 fibers. Solutions supported are:

- LazrSPEED 550, 50 µm Multimode (OM4)
- LazrSPEED 300, 50 µm Multimode (OM3)
- LazrSPEED 150, 50 µm Multimode (OM2+)
- OptiSPEED, 62.5 µm Multimode
- TeraSPEED, Single-mode

Features & Benefits:

- Small, compact module design offer improved density and is reverse compatible with the G2 modular cassette solution
- Translucent shutters and dust plugs allow for easy port identification utilizing a Visual Fault Locator (VFL)
- Modules are available with 12 or 24 LC connections or with 12 SC connections
- The Modular Panels offer excellent cable management and rear access, while minimizing bulk, complexity and potential restrictions to air flow
- The InstaPATCH 360 solution is iPATCH Ready, offering the capability to upgrade to intelligent infrastructure management after the initial installation
- Factory terminated and tested cable and apparatus for instant field connections with guaranteed quality and performance
- 24-fiber module option aligns well with systems that utilizes a 8-fiber increment
- 12-fiber MPO connector based modular design enables simple connections
- Designed for administrative convenience - guaranteed transmit-to-receive connectivity
- No special polarity components – single module design, standard patch cords
- Easy upgrade path to parallel connectivity and wavelength division multiplexing applications
 - 40 Gbps / 100 Gbps Ethernet
 - 16 Gbps Fibre Channel
- Supports easy reconfiguration for moves, adds and changes

SYSTIMAX 360 Modular Fiber Shelves & Panels 1U, 2U & 4U

The 360G2 fiber shelves are available in 1U, 2U and 4U sizes as well as sliding and fixed settings.

Features and Benefits of the 1U and 2U Fiber Shelves:

- Bend limiters maximize space by integrating into the shelf trough
- Push/push-style latch on the front trough door improves access to shelf interior
- Unique open-floor trough design enhances access for patch cord latching and de-latching
- Displays intuitively-placed port labeling when door is open
- Features the elegant SYSTIMAX 360 design
- Offered in fixed and sliding options

Features and Benefits of the 4U Fiber Shelves:

- Push/push-style latch on front and rear door improves access to shelf interior
- Refined cable management rings enhance access to base of modules
- Advanced vertical management increases flexibility
- Larger side fiber access allows for more fiber
- Shelf assist (patent pending) facilitates installation and ensures proper U spacing for shelf mounting

Features and Benefits of the 1U and 4U Fiber Panels:

- Panels are mounted in a horizontal orientation
- The Modular Panels offer excellent cable management and rear access, while minimizing bulk, complexity and potential restrictions to air flow
- By eliminating the rear enclosure found on a full shelf, the weight is substantially reduced (need to get the actual weights and calculate a percentage)
- The Modular Panels have full-feature cable and cord management on the front
- The 4U Modular Panel can accommodate 16 InstaPATCH 360 Modules, allowing up to 384 fibers in 4 rack units when utilizing LC-LC patching
- When utilizing the 360DP MPO pass through panels, fiber density can reach 1536 fibers in 4 rack units
- MPO pass through panels available with 2, 4, 6, and 8 MPO adapters to accommodate various configurations



360 1U Modular Shelf



360 4U Modular Panel

Product Number	Detailed Description	Material ID
360G2-1U-MOD-FX	360G2 1U Fixed modular cassette shelf, accepts 4 360DM, 360DP or 360G2 modular cassettes	760103150
360G2-1U-MOD-SD	360G2 1U Sliding modular cassette shelf, accepts 4 360DM, 360DP or 360G2 modular cassettes	760103085
360G2-1U-MOD-IS	360G2 1U Fixed modular cassette shelf, accepts 4 360DM, 360DP or 360G2 modular cassettes	760119123
360G2-2U-MOD-FX	360G2 2U Fixed modular cassette shelf, accepts 8 360DM, 360DP or 360G2 modular cassettes	760103168
360G2-2U-MOD-SD	360G2 2U Sliding modular cassette shelf, accepts 8 360DM, 360DP or 360G2 modular cassettes	760103143
360G2-4U-MOD-FX	360G2 4U Fixed modular cassette shelf, accepts 12 360DM, 360DP or 360G2 modular cassettes	760101055
360G2-4U-MOD-SD	360G2 4U Sliding modular cassette shelf, accepts 12 360DM, 360DP or 360G2 modular cassettes	760101071
360MP-1U*	360MP 1U Panel, accepts 4 360DM or 360DP components	760106617
360MP-1UA Angled*	360MP 1U Panel Angled, accepts 4 360DM or 360DP components	760113001
360MP-4U*	360MP 4U Panel, accepts 16 360DM or 360DP components	760120287

360G2 Accessories

Product Number	Detailed Description	Material ID
360G2-1U-TROUGH	360 1U Trough Assembly Kit	760086215
360G2-2U-TROUGH	360 2U Trough Assembly Kit	760093567
360G2-4U-FLK	360 Flip Label Kit, 4U Shelf	760101410
360G2-1U-LABEL	360G2 Flip Label Kit, 1U Trough	760105676
CMB-360MP-1U	Hardware kit for 360MP-1U and 360MP-1U-ANGLED panels for mounting to "L" shaped equipment rail	760110098

*The 360MP-1U, 360MP-1UA and 360MP-4U are shipped with correct hardware for mounting in a "C" channel rack or cabinet. For appropriate installation in a "L" channel rack, please purchase 760110098 – CMB Spacer Kit for 360MP-1U, L Shape. This will allow for mounting in racks or cabinets that do not have a full "C" Channel.

Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPATCH Plus

G2 Fiber Connectivity

Additional Fiber Connectivity

Tools & Consumables

SYSTIMAX 360

Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPATCH Plus

G2 Fiber Connectivity

Additional Fiber Connectivity

Tools & Consumables

SYSTIMAX 360G2 1U and 2U MOD Shelves and 360MP-1U Panels

The 1U and shelves and panels can house any combination of up to 4 InstaPATCH 360DM Modules to achieve up to 96 fiber terminations per unit, while the 2U shelf can house up to 8 360 DM Modules and achieve up to 192 fiber terminations per unit. In addition, the 360G2 1U and 2U lines of shelves provide ample space for storing up to 2 meters of cable slack inside each shelf.

The 360MP-1U panel and G2 MOD shelves are equipped with a front trough for patch cord management that provides ample room for labeling. The 360MP-1U also includes a rear cable management bar, labels for network mapping, mounting hardware and installation instructions.

SYSTIMAX 360G2 4U MOD Shelves

The 4U shelf houses any combination up to 12 InstaPATCH 360DM modules to achieve up to 288 fiber terminations per shelf. It can be mounted on a 19-inch, 23-inch or ETSI rack. The 360G2-4U-MOD-FX (fixed) and 360G2-4U-MOD-SD (sliding) includes trunk cable storage clips, labels for network mapping, mounting hardware and installation instructions.

InstaPATCH 360DM-24LC-LS/MM/SM Module

This module features 12 pre-installed duplex LC adapters at the front routed to 2 pre-installed 12-fiber MPO adapters at the back. This high-density module features opaque exterior shutters for improved dust protection and occupational safety, as well as visible port mapping.

Physical Specifications:

	MP-1U Panel	DM2 Modules—LC, SC, ST
Height:	1.7 in (4.37 cm)	1.1 in (2.9 cm)
Width:	19.0 in (48.3 cm)	5.1 in (13.0 cm)
Depth:	9.7 in (24.6 cm)	5.0 in (12.8 cm)
Listing:	UL	UL

See G2 Shelf sections for specifications of shelves.

InstaPATCH 360DM-12LC-LS/MM/SM Module

This module features 6 pre-installed duplex LC adapters at the front routed to a pre-installed 12-fiber MPO adapter at the back. This high-density module features opaque exterior shutters for improved dust protection and occupational safety, as well as visible port mapping.

InstaPATCH 360DM-12SC-LS/MM/SM Module

This module features 6 pre-installed duplex SC adapters routed to a pre-installed 12-fiber MPO adapter at the back. Each duplex SC adapter includes two “easy-pull” protective dust caps, opaque in color, to allow for visible port mapping.

InstaPATCH 360DP-MPO Module Adapter Panel

The MPO adapter panel is available equipped with 2, 4, 6, or 8 MPO adapters. The panel allows for direct connections with MPO equipment for parallel applications or MPO fanout to traditional duplex transceivers.

InstaPATCH 360 Universal Mounting Bracket

The InstaPATCH 360 Universal Mounting Bracket extends application flexibility with the InstaPATCH 360 modules and offers options for wall-mount, rack-mount, and cabinet-mount. The UMB bracket is individually packed with the mounting screws (included) and can mount either one or up to four modules or MPO panels into a 19” rack. Using optional #10 screws (not included), the bracket can be attached to a wall or ceiling in either horizontal or vertical orientation.



Universal Mounting Bracket

Optical Performance

Module Component	LazrSPEED Total Insertion Loss	Return Loss	TeraSPEED Total Insertion Loss	Return Loss
DM-LC Modules	≤ .90 dB	≥ 20 dB	≤ 1.15 dB	≥ 55 dB
DM-SC Modules	≤ 1.10 dB	≥ 20 dB	≤ 1.3 dB	≥ 55 dB
DM-ST Modules	≤ 1.10 dB	≥ 20 dB	≤ 1.3 dB	≥ 55 dB

SYSTIMAX 360

InstaPATCH® 360 Modules



InstaPATCH 360 Modules

Product Number	Fiber Count	Fiber Type	Detailed Description	Material ID
360DM-24LC-LS	24	50µm	InstaPATCH 360 Module, 24LC-LS	760109884
360DM-12LC-LS	12	50µm	InstaPATCH 360 Module, 12LC-LS	760109926
360DM-12SC-LS	12	50µm	InstaPATCH 360 Module, 12SC-LS	760109967
360DM-24LC-LS-6PK	24	50µm	InstaPATCH 360 Module, 24LC-LS, 6 Pack	760116178
360DM-12LC-LS-6PK	12	50µm	InstaPATCH 360 Module, 12LC-LS, 6 Pack	760116186
360DM-24LC-MM	24	62.5µm	InstaPATCH 360 Module, 24LC-MM	760109900
360DM-12LC-MM	12	62.5µm	InstaPATCH 360 Module, 12LC-MM	760109942
360DM-12SC-MM	12	62.5µm	InstaPATCH 360 Module, 12SC-MM	760109983
360DM-24LC-SM	24	Single-Mode	InstaPATCH 360 Module, 24LC-SM	760109892
360DM-12LC-SM	12	Single-Mode	InstaPATCH 360 Module, 12LC-SM	760109934
360DM-12SC-SM	12	Single-Mode	InstaPATCH 360 Module, 12SC-SM	760109975
360DM-24LC-SM-6PK	24	Single-Mode	InstaPATCH 360 Module, 24LC-SM, 6 Pack	760116194
360DM-12LC-SM-6PK	12	Single-mode	InstaPATCH 360 Module, 12LC-SM, 6 Pack	760116202



Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPATCH Plus

G2 Fiber Connectivity

Additional Fiber Connectivity

Tools & Consumables

SYSTIMAX® 360G2 iPatch Fiber Shelves

The 360G2 fiber shelves are available in 1U, 2U and 4U sizes as well as sliding and fixed settings.

The SYSTIMAX 360 1U optical fiber shelves are “iPatch-Ready” and can be upgraded in the field at a later stage with the 360 iPatch Upgrade Kit. The upgrade can be performed without network disruptions, since it does not require the removal of patch cords. The SYSTIMAX 360 solution offers customers the option to deploy intelligence immediately or in phases, according to their needs and budgetary requirements. By providing a clear strategy that includes an upgradeable product line, CommScope intends to bring intelligence to the masses and raise awareness of the business benefits of intelligent infrastructures.



360G2 1U Fiber Shelf

Features and Benefits:

- Bend limiters maximize space by integrating into the shelf trough
- Push/push-style latch on the front trough door improves access to shelf interior
- Unique open-floor trough design enhances access for patch cord latching and de-latching
- Displays intuitively-placed port labeling when door is open
- Features the elegant SYSTIMAX 360 design
- Offered in fixed and sliding options
- Available in 1RU and 2RU sizes
- 360G2 1U Modular Shelf is available in iPatch-Ready versions (field upgradable to iPatch without the need to remove patch cords, meaning no network downtime) or factory assembled iPatch versions

360G2 iPatch Intelligence Enabled Shelves

Product Number	Detailed Description	Material ID
360-iP-G2-1U-LC-FX	360 iPatch G2 LC Fiber Shelf, Fixed	760105163
360-iP-G2-1U-LC-SD	360 iPatch G2 LC Fiber Shelf, Slide	760105171

360G2 Modular Intelligence Ready Shelves

Product Number	Detailed Description	Material ID
360G2-1U-MOD-FX	360G2 1U Fixed modular cassette shelf, accepts 4 360DM, 360DP or G2 modular cassettes	760103150
360G2-1U-MOD-SD	360G2 1U Sliding modular cassette shelf, accepts 4 360DM, 360DP or G2 modular cassettes	760103085
360-iP-UP-KIT-G2-LC	360 iPatch Upgrade Kit for 360G2-1U-MOD shelves with 360G2 LC cassettes 360DP LC Panels	760105148

360G2 iPatch HD Shelf

Product Number	Detailed Description	Material ID
360-iP-HD-2U-IP-SD	360 iPatch G2 HD Fiber Shelf, 2U Sliding	760093336

360G2 High Density Modules

Product Number	Detailed Description	Material ID
360-iP-HD-MOD-LC-LS	360 iPatch G2 HD LS Module	760093344
360-iP-HD-MOD-LC-LS-3	360 iPatch G2 HD LS Module (3-pack)	760093351
360-iP-HD-MOD-LC-TS	360 iPatch G2 HD TS Module	760093369
360-iP-HD-MOD-LC-TS-3	360 iPatch G2 HD TS Module (3-pack)	760093377
360-iP-HD-MOD-LC-OS	360 iPatch G2 HD OS Module	760093385
360-iP-HD-MOD-LC-OS-3	360 iPatch G2 HD OS Module (3-pack)	760093393

Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPATCH Plus

G2 Fiber Connectivity

Additional Fiber Connectivity

Tools & Consumables

InstaPATCH® Aligned Key MPO Adapter

The InstaPATCH In-Line MPO Adapter Housing is designed to provide protection when mating an InstaPATCH trunk cable to an InstaPATCH extension cable or ruggedized fanout. The housing allows for MPO connectivity without using rack units for adapter panels and protects 2 MPO connections. A Velcro strip for mounting and label is included.



In-Line Adapter Housing MPO(f)-MPO(m)

Detailed Description	Material ID
In-Line Adapter Housing MPO(f)-MPO(m)	760074047

InstaPATCH® 360 Universal Mounting Bracket

The InstaPATCH 360 universal mounting bracket extends application flexibility of the InstaPATCH 360 modules and offers options for wall-mount, rack-mount, and cabinet-mount. The UMB bracket is individually packed with the mounting screws (included) and can mount either one or up to four modules or MPO panels into a 19" rack. Using optional #10 screws (not included), the bracket can be attached to a wall or ceiling in either horizontal or vertical orientation.



Universal Mounting Bracket

Detailed Description	Material ID
360 - UMB InstaPATCH Universal Mounting Bracket Kit, accepts up to 4 modules	760117564

Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPATCH Plus

G2 Fiber Connectivity

Additional Fiber Connectivity

Tools & Consumables

InstaPATCH® 360 Pre-terminated Trunk Cables



LazrSPEED 300 Trunk Cable 72 Strand MPO(f)-MPO(f) Plenum
FPCZMPMP6F-PFxxx

The SYSTIMAX InstaPATCH 360 System features a high-density, factory-terminated, factory tested, modular fiber connectivity solution that allows installers to simply and quickly connect system components together.

Developed by CommScope Labs, the InstaPATCH 360 System is designed to support locations, such as data centers, that require high-density, rapid deployment and high performance. The InstaPATCH 360 System incorporates LazrSPEED multimode, OptiSPEED multimode and TeraSPEED single-mode fiber technologies to support today's most demanding applications, while allowing easy migration to next generation technology.

InstaPATCH 360 Trunk Cables

InstaPATCH 360 trunk cables are offered in LazrSPEED 550, LazrSPEED 300, LazrSPEED 150, OptiSPEED and TeraSPEED Solutions.

The InstaPATCH trunk cables are round, non-ribbon based, providing much more flexibility and ease of installation than traditional MPO terminated trunks. They are offered in 12, 24, 36, 48, 72, 96 and 144 fibers. The cable is constructed with multiple subunits, each with 12 fibers, and is terminated on both ends with MPO 12-fiber connectors. There is no splicing within the cable, and each group of 12 fibers is protected by over-sheath. The lengths of the breakout over-sheaths are staggered for easy routing and handling. The maximum length of the breakout over-sheath is 33 inches from the transition point.

All trunk cables can be ordered with or without a pulling grip and with or without a cable gland.

Features and Benefits:

- Available in LazrSPEED 550, LazrSPEED 300, LazrSPEED 150, OptiSPEED and TeraSPEED Solutions
- 12 fiber MPO connector-based modular design enables simple connections
- Factory terminated and tested trunk cables for instant field connections and guaranteed quality and performance
- Designed for administrative convenience—guaranteed transmit-to-receive connectivity
- Supports easy reconfiguration for moves, adds and changes
- Easy upgrade path to parallel connectivity and associated applications, while preserving most of the initial investment

InstaPATCH 360 Trunk Extensions

The InstaPATCH 360 trunk extensions, offered in LazrSPEED 550, LazrSPEED 300, LazrSPEED 150, OptiSPEED and TeraSPEED Solutions, are used to connect hardware to trunk cables. The InstaPATCH 360 trunk extensions are constructed with a 12 fiber cable and provide a female MPO connector on one end to attach to an InstaPATCH module or rugged fanout and a male MPO on the other end to attach to a trunk cable through a DM-2 MPO, DM-4 MPO, DM-6 MPO or DM-8 MPO panel or an InstaPATCH Plus Aligned Key Adapter.

Cable Specifications:

Attenuation, max:	LazrSPEED 550	LazrSPEED 300	LazrSPEED 150	OptiSPEED	TeraSPEED
	3.0 dB/km @ 850 nm	3.0 dB/km @ 850 nm	3.0 dB/km @ 850 nm	3.0 dB/km @ 850 nm	0.5 dB/km @ 1310 nm
	1.0 dB/km @ 1300 nm	1.0 dB/km @ 1300 nm	1.0 dB/km @ 1300 nm	1.0 dB/km @ 1300 nm	0.5 dB/km @ 1385 nm
					0.5 dB/km @ 1550 nm

Minimum Bandwidth, MHz-km:	LazrSPEED 550	LazrSPEED 300	LazrSPEED 150	OptiSPEED	TeraSPEED
Overfilled:	3500 Mhz-km @ 850 nm	1500 Mhz-km @ 850 nm	700 Mhz-km @ 850 nm	200 Mhz-km @ 850 nm	N/A
	500 Mhz-km @ 1300 nm	500 Mhz-km @ 1300 nm	500 Mhz-km @ 1300 nm	500 Mhz-km @ 1300 nm	N/A
Laser:	4700 Mhz-km @ 850 nm	2000 Mhz-km @ 850 nm	950 Mhz-km @ 850 nm	N/A	N/A
	500 Mhz-km @ 1300 nm	500 Mhz-km @ 1300 nm	500 Mhz-km @ 1300 nm	N/A	N/A

Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPATCH Plus

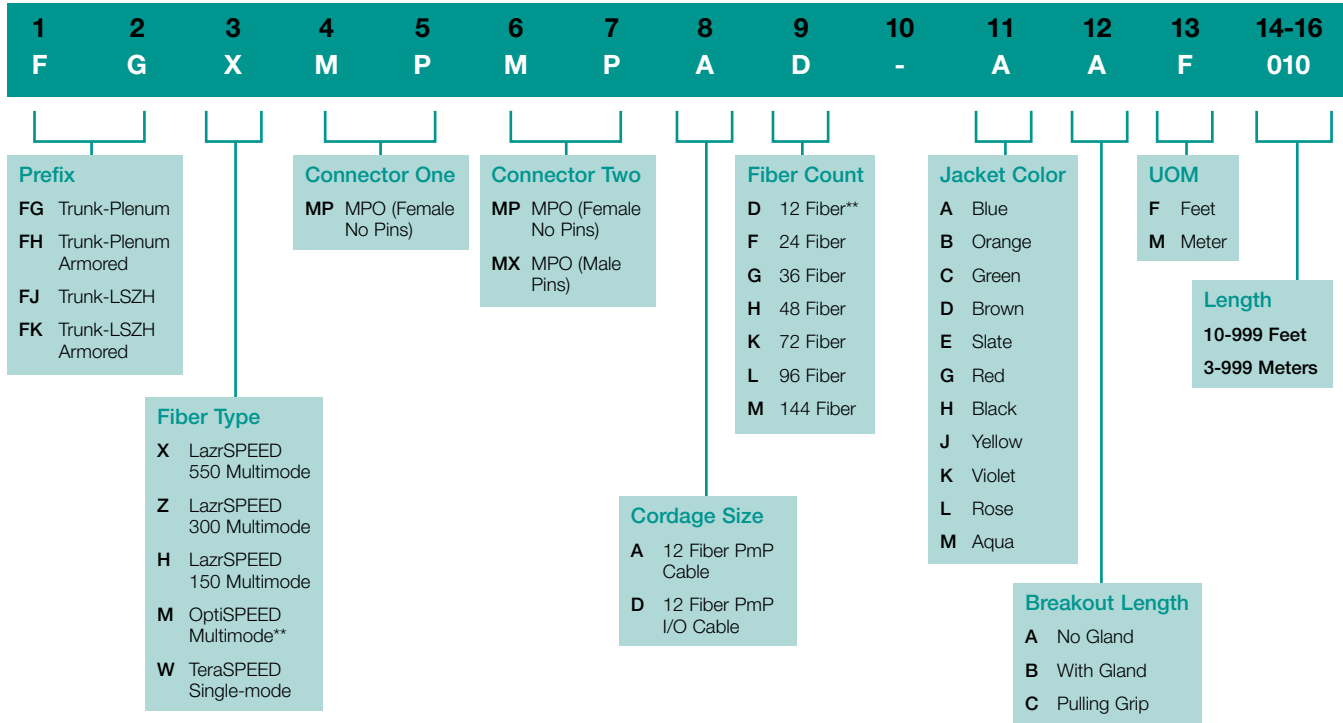
G2 Fiber Connectivity

Additional Fiber Connectivity

Tools & Consumables

SYSTEMAX 360

InstaPATCH 360 Pre-terminated Trunk Cables Configurator



**Not available for the Ultra High Density Fiber Solution

Fiber Types & Reference
 Distribution Cables
 Indoor/Outdoor Cables
 Outside Plant Cables
 InstaPATCH Plus
 G2 Fiber Connectivity
 Additional Fiber Connectivity
 Tools & Consumables

SYSTEMAX 360

InstaPATCH® 360 Ruggedized Fanout Cables



Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPATCH Plus

G2 Fiber Connectivity

Additional Fiber Connectivity

Tools & Consumables

The InstaPATCH 360 ruggedized fanout cables support direct connection to equipment from the patch panel. Ruggedized fanout cables can be terminated with MPO connectors on one end and paired LC, SC or ST (LC and ST are duplex clipped) connectors on the other end. Optionally, ruggedized fanout terminated with single fiber connectors on both ends. The ruggedized fanout cable is designed for use with 360 modular shelves, InstaPATCH 360 trunks and MPO panels.

The ruggedized fanouts are available in LazrSPEED 550, LazrSPEED 300, TeraSPEED and OptiSPEED Solutions, in 12, 24, 36, 48 and 72 fiber counts. The fanout is built with InstaPATCH (12 fiber subunit distribution cable) and furcated to individual fiber legs, terminated with individual connectors. Each fiber leg is constructed with 1.6 mm reinforced zipcord furcation tubing for outstanding durability and dependability. Both Female and Male fanouts are equipped with cable gland for mounting to Rack or Shelf Mount Brackets.

Designed for two distinct applications, the InstaPATCH 360 MPO Fanout Cables are available in two configurations:

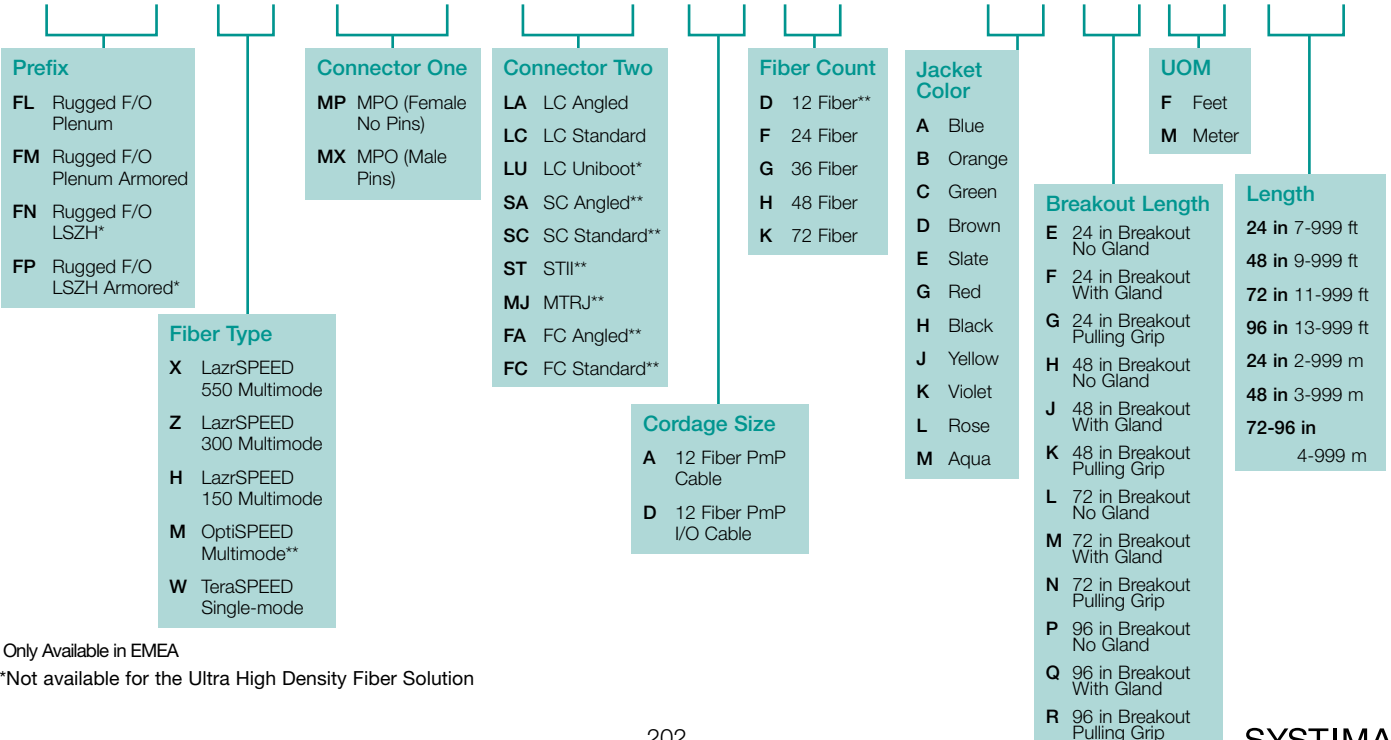
- MP—without pins, for connections to equipment from an InstaPATCH 360 Module
- MX—with pins, for connections to equipment directly from a trunk cable

Features and Benefits:

- 12 fiber MPO connector based modular design enables simple connections
- Ruggedized fanouts are constructed with LazrSPEED 550, LazrSPEED 300, LazrSPEED 150 OptiSPEED or TeraSPEED fibers
- Factory terminated and tested for instant field connections and guaranteed quality and performance
- Designed for administrative convenience—guaranteed transmit-to-receive connectivity
- No special or non-standard polarity components

InstaPATCH 360 Ruggedized Fanout Cables Configurator

1	2	3	4	5	6	7	8	9	10	11	12	13	14-16
F	L	X	M	P	L	A	A	D	-	M	E	F	010



* Only Available in EMEA

**Not available for the Ultra High Density Fiber Solution

Reusable Pulling Grip Kit

Save costs with the Reusable Pulling Grip Kit. This innovative reusable kit allows you to order non-armored trunk cables without pulling grips and order pulling grip kits separately. Since each grip can be reused up to 10 times, these kits reduce the total cost of the installation.

- Easy attachment and removal makes cable installation faster
- Reusability reduces the total cost of the installation
- Non-armored trunk cables ordered with pulling grip attached will come with the reusable grip pre-attached
- Not for use with armored trunk cables
- Pulling grips include color coded labels for easy size recognition

* Kit comes complete with Reusable Pulling Grip, Nylon Cable Ties and Instruction Sheet



Detailed Description	Max. Load	Material ID
InstaPATCH Pulling Grip Kit, 12 Fiber, black label	25 lbf Max. Load	760060541
InstaPATCH Pulling Grip Kit, 24 Fiber, gray label	50 lbf Max. Load	760060558
InstaPATCH Pulling Grip Kit, 48/72 Fiber, blue label	75 lbf Max. Load	760060566
InstaPATCH Pulling Grip Kit, 96/144 Fiber, green label	75 lbf Max. Load	760060574

Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPATCH Plus

G2 Fiber Connectivity

Additional Fiber Connectivity

Tools & Consumables

InstaPATCH® 360 Array Cords

The SYSTIMAX InstaPATCH 360 Array Cords are designed for use with InstaPATCH 360 trunk cables, modules and shelves. Array cords can be terminated with either MPO connectors on both ends or MPO connectors on one end and paired LC, SC or ST (LC and SC are duplex clipped) connectors on the other end. Different from ruggedized fanouts which include an outer sheath to protect the fiber on longer runs between racks, array cords utilize 3.0 mm 12 fiber cordage that is protected with aramid yarn for durability and allowing maximum flexibility within a rack/cabinet.

Designed for two distinct applications, InstaPATCH 360 MPO Array Cords are available in two configurations:

- MPO to MPO for trunk extension, cross-connect applications or patching into parallel transceivers or array equipment
- MPO to paired connectors (LC, SC, ST) for directly connecting equipment to a trunk

Features and Benefits:

- 12 fiber MPO connector based modular design enables simple connections
- Array cords are constructed with LazrSPEED 550, LazrSPEED 300, LazrSPEED 150, OptiSPEED or TeraSPEED fibers
- Factory-terminated and tested for instant field connections and guaranteed quality and performance
- No special or non-standard polarity components
- MPO-LC/SC/ST Array fanouts are constructed with 1.6 mm reinforced zipcord furcation tubing for outstanding durability and dependability
- Array Fanout assemblies are available in with fanout length of 48" for cables over 10 feet; Cables 3-9 feet, 24 inch fanout; Cables 2 feet, 12 inch fanout



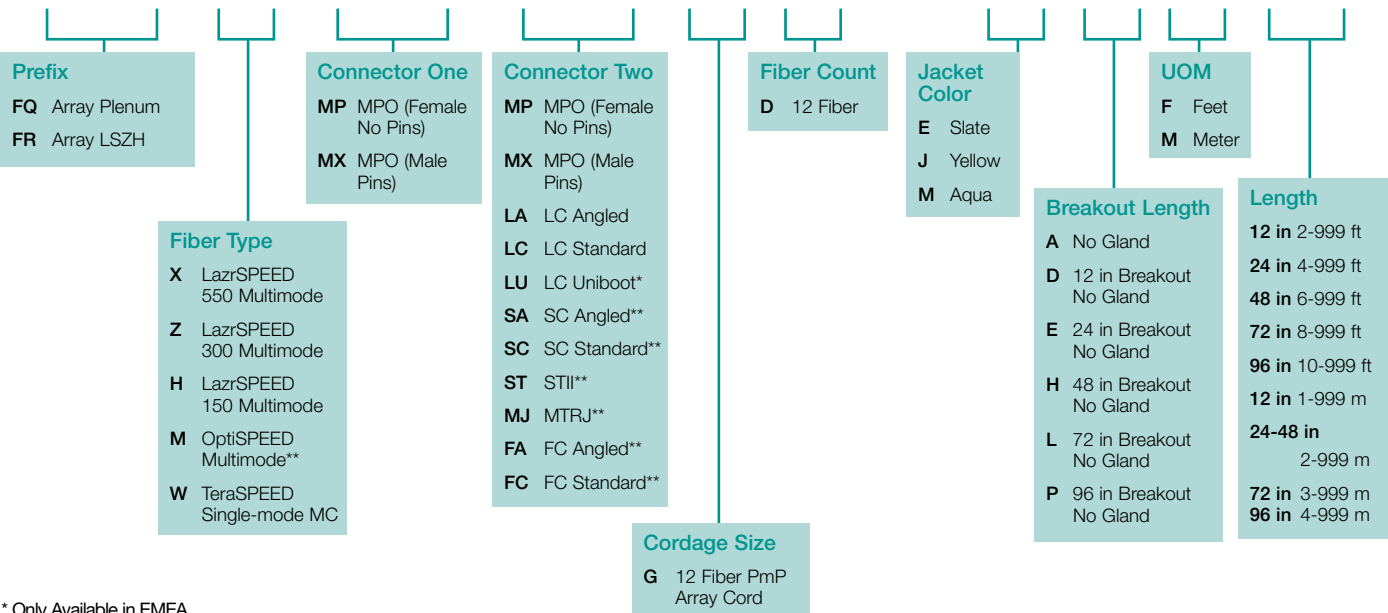
LazrSPEED 300 12 Strand Array Cord MPO(f)-LC Plenum



LazrSPEED 300 12 Strand Array Cord MPO(f)-MPO(m) Plenum

InstaPATCH 360 Array Cords Configurator

1	2	3	4	5	6	7	8	9	10	11	12	13	14-16
F	Q	X	M	P	L	A	G	D	-	A	E	F	010



* Only Available in EMEA

**Not available for the Ultra High Density Fiber Solution

Fiber Optic Patch Cords

The final fiber optic component of your connectivity solution, Fiber Optic Patch Cords support the connection of the backbone fiber cabling plant to the transceiver/optical electronics. Patch cords (a.k.a. jumpers) are also used to cross-connect segments of cabling infrastructure to another.

Made of rugged round or zipcord construction in customer-specified lengths of 2-fiber cable, our patch cords are available in LazrSPEED, OptiSPEED, and TeraSPEED, in any combination of SC, LC and ST connectors.

Features and Benefits:

- Duplex zipcord construction provides better mechanical performance with less risk of damage from crimping
- Rugged 1.6 mm or 3.0 mm cordage for durable and easily handled connections
- Outer jacket colored for easy identification

Physical Specifications:

1.6 mm and 3.0 mm Patch Cords

Outside Diameter (simplex):

- 1.6 mm:** 1.6 mm
- 3.0 mm:** 3.0 mm

Outside Diameter (zip cord):

- 1.6 mm:** 1.6 mm x 3.3 mm
- 3.0 mm:** 3.0 mm x 5.9 mm

Minimum Cable Retention Strength:

- 1.6 mm:** 11.24 lbs (50 N)
- 3.0 mm:** 11.24 lbs (50 N)

Minimum Bend Radius:

- 1.6 mm:** Loaded: 2.0 in (5.1 cm)
Unloaded: 1.4 in (3.5 cm)
- 3.0 mm:** Loaded: 2.3 in (5.8 cm)
Unloaded: 1.4 in (3.5 cm)

Maximum Cordage Tensile Load:

- Zipcords:**
- 1.6 mm:** Short Term: 70 lbs (311 N)
Long Term: 21 lbs (93 N)
 - 3.0 mm:** Short Term: 90 lbs (400 N)
Long Term: 27 lbs (120 N)
- Simplex:**
- 1.6 mm:** Short Term: 35 lbs (156 N)
Long Term: 111 lbs (47 N)
 - 3.0 mm:** Short Term: 60 lbs (267 N)
Long Term: 181 lbs (80 N)

LazrSPEED Patch Cord LC-SC
1.6 mm Duplex



TeraSPEED Patch Cord LC-SC
1.6 mm Duplex



OptiSPEED Patch Cord LC-ST
1.6 mm Duplex

Fiber Optic Patch Cords Configurator

1 F 2 D 3 X 4 L 5 1 6 L 7 1 8 2 9 1 10 - 11 A 12 X 13 F 14-16 010

Prefix FD Jumper-Plenum FE Jumper-Riser FF Jumper-LSZH	Fiber Type X LazrSPEED 550 Multimode M OptiSPEED Multimode** W TeraSPEED Single-mode	Connector One LC LC Standard** SC SC Standard** ST STII** LA LC Angled** SA SC Angled** L1 LC Keyed Red L2 LC Keyed Yellow L3 LC Keyed Blue L4 LC Keyed Green L5 LC Keyed Orange L6 LC Keyed Slate L7 LC Keyed Brown L8 LC Keyed Aqua L9 LC Keyed Rose LV LC Keyed Violet LU LC Uniboot*	Connector Two LC LC Standard** SC SC Standard** ST STII** LA LC Angled SA SC Angled L1 LC Keyed Red L2 LC Keyed Yellow L3 LC Keyed Blue L4 LC Keyed Green L5 LC Keyed Orange L6 LC Keyed Slate L7 LC Keyed Brown L8 LC Keyed Aqua L9 LC Keyed Rose LV LC Keyed Violet MJ MTRJ** FC FC Standard** FA FC Angled** LU LC Uniboot*	Fiber Count 1 1 Fiber 2 2 Fiber	Cordage Size 2 1.6mm Simplex 3 3.0mm Simplex 4 1.6mm Zipcord 5 3.0mm Zipcord	Jacket Color A Blue B Orange C Green D Brown E Slate G Red H Black J Yellow K Violet L Rose M Aqua	UOM F Feet M Meter	Breakout Length X No Breakout	Length 2 - 999 Feet 1 - 999 Meters
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* Only Available in EMEA

**Not available for the Ultra High Density Fiber Solution

Fiber Types & Reference Cables
Distribution Cables
Indoor/Outdoor Cables
Outside Plant Cables
InstaPATCH Plus
G2 Fiber Connectivity
Additional Fiber Connectivity
Tools & Consumables

CommScope® Fiber Optic Lockable Patch Cord Kit



The kit is field installable and works with keyed and non-keyed duplex LC patch cords only. This is a wedge and release tool kit that consists of 25 wedges and 1 removal tool (a 5 pack of the removal tool is also offered). The Wedge is inserted underneath the latch of a duplex LC connector. After the connector is installed into the adapter the wedge allows movement, but without the removal tool the connection cannot be detached, making it ideal for networks where extra security is needed.

Lockable Fiber Optic Patch Cord Kit

Product Number	Detailed Description	Material ID
Kit-LC Locks & Tool	25 LC Patch cord Locks and 1 Removal Tool Kit	760140293
Kit-LC Removal Tools	LC Lock Removal Tool Kit, 5 Pack	760140301

Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPATCH Plus

G2 Fiber Connectivity

Additional Fiber Connectivity

Tools & Consumables

Fiber Pigtails

Single-ended connectorized buffered fiber for use in splicing to building or outside plant cables. Single-mode and multimode tight buffered pigtails are available in all colors.



Fiber Pigtail



Fiber Pigtail Pack

Fiber Pigtails - Packs of 12

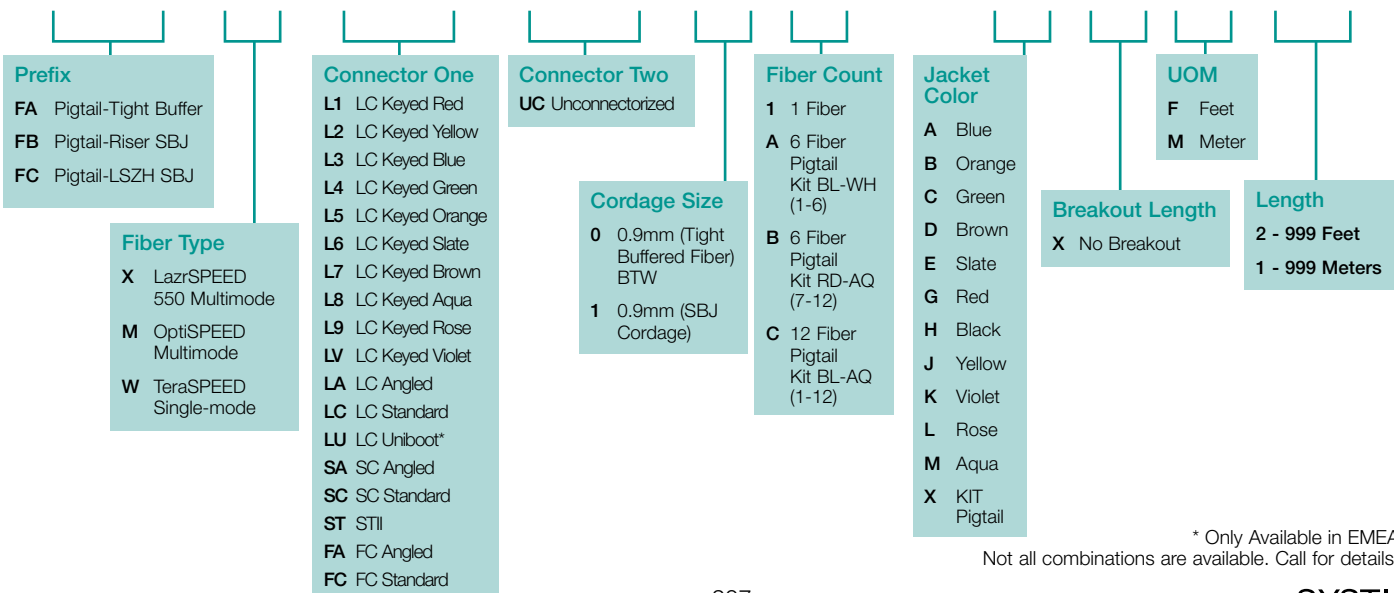
Fiber packs come in standard lengths or 3 meters and are cut to lengths at the job site.

Fiber Pigtails

Product Number	Detailed Description	Material ID
RFT-12BF09-5K-SCU-03	MM 50µm LazrSPEED 550 (OM4), colored buffer fiber 12 fibers SC Simplex 3 meter length	FAXSCUC0C-XXM003
RFT-12BF09-6F-SCU-03	MM 62.5µm FDDI Grade, colored buffer fiber 12 fibers SC Simplex 3 meter length	FAMSCUC0C-XXM003
RFT-12BF09-8W-SCU-03	SM TeraSPEED colored buffer fiber 12 fibers SC Simplex 3 meter length	FAWSCUC0C-XXM003
RFT-12BF09-8W-SCA-03	SM TeraSPEED, colored buffer fiber 12 fibers SC-APC Simplex 3 meter length	FAWSAUC0C-XXM003
RFT-12BF09-5K-LCR-03	MM 50µm LazrSPEED 550 (OM4), colored buffer fiber 12 fibers LC Simplex 3 meter length	FAXLCUC0C-XXM003
RFT-12BF09-6F-LCR-03	MM 62.5µm FDDI Grade, colored buffer fiber 12 fibers LC Simplex 3 meter length	FAMLCUC0C-XXM003
RFT-12BF09-8W-LCR-03	SM TeraSPEED, colored buffer fiber 12 fibers LC Simplex 3 meter length	FAWLCUC0C-XXM003
RFT-12BF09-8W-LCA-03	SM TeraSPEED, colored buffer fiber 12 fibers LC-APC Simplex 3 meter length	FAWLAUC0C-XXM003
RFT-12BF09-5K-STU-03	MM 50µm LazrSPEED 550 (OM4), colored buffer fiber 12 fibers ST Simplex 3 meter length	FAXSTUC0C-XXM003
RFT-12BF09-6F-STU-03	MM 62.5µm FDDI Grade, colored buffer fiber 12 fibers ST Simplex 3 meter length	FAMSTUC0C-XXM003
RFT-12BF09-8W-STU-03	SM TeraSPEED, colored buffer fiber 12 fibers ST Simplex 3 meter length	FAWSTUC0C-XXM003

Fiber Pigtails Configurator

1	2	3	4	5	6	7	8	9	10	11	12	13	14-16
F	A	X	L	1	U	C	0	1	-	A	X	F	002



Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPATCH Plus

G2 Fiber Connectivity

Additional Fiber Connectivity

Tools & Consumables

InstaPATCH® 360 Attachment Brackets

All InstaPATCH 360 trunk cables include a cable strain relief fitting allowing the cable to be attached to brackets or to the shelf, providing improved strain relief. When attached by the cable strain relief fitting, the connectorized legs are protected from forces applied to the cable itself. The fitting can attach to the ports at the rear of the G2 1U & 2U shelves, to brackets mounted on the rack, or to brackets mounted on the G2 4U shelf.

Features and Benefits:

- Provides secure attachment of the cable to prevent excessive pulling on the fiber
- Strain relief prevents macrobending and microbending (i.e., loss)
- Adjustable breakout/transition point
- Secure cable management as part of the system, not an after-thought
- Brackets are unpainted stainless steel to allow grounding of the cable armor
- Integrated part of the pulling grip
- Traditional components adopted to a pre-terminated cabling solution
- Common functionality with armored cable assemblies
- Common hand tool installation, no risk to cordage



96 Fiber InstaPATCH 360 Trunk Cable shown with 1000G2-4U-FX Shelf and RMB-6-1/2 Rack Mounted Bracket



InstaPATCH 360 Trunk Cables attached to shelf mounted bracket

Product Number	Detailed Description	Material ID
SMB-KIT-8-1/2-360G2	Covers and 1/2" SMBs for 360G2	760128942
SMB-KIT-4-3/4-360G2	Covers and 3/4" SMBs for 360G2	760128959
RMB-6-1/2	Rack mounted bracket, six cables with 1/2" fittings (48, 72, 96 and 144 fiber trunks / 12, 24 and 48 fiber armored trunks)	760058677
RMB-6-3/8	Rack mounted bracket, six cables with 3/8" fittings (12 and 24 fiber trunks)	760058685
RMB-5-3/4	Rack mounted bracket, five cables with 3/4" fittings (72, 96 and 144 fiber armored trunks)	760058701
BGND-12	Grounding kit for use with armored InstaPATCH Plus trunks. Grounding strap and attachments included.	760058693



Rack Mount Bracket

Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPATCH Plus

G2 Fiber Connectivity

Additional Fiber Connectivity

Tools & Consumables

1U and 2U Shelf Accessories



RS-4AF-16SF

Splice Kits

Product Number	Detailed Description	Material ID
RS-2AF-16SF	RoloSplice Kit E/W 2 Fusion Splice Trays, for 1U Shelf	760039867
RS-2AM -12SF	RoloSplice Kit E/W 2 Mechanical Splice Trays, for 1U Shelf	760039859
RS-4AF-16SF	RoloSplice Kit E/W 4 Fusion Splice Trays, for 2U Shelf	760031856
RS-4AM -12SF	RoloSplice Kit E/W 4 Mechanical Splice Trays, for 2U Shelf	760031849
RS-00	RoloSplice, accepts 4 Splice Trays (not included)	760027516
1AMF1-16LG	Fusion Splice Trays, 16 splices per tray, Pack of 10	700006257
1AM1-12LG	Mechanical Splice Trays, 12 splices per tray, Pack of 10	700006240
1AMF1-6LG	Mass Fusion Splice Tray, 6 splices per tray, Pack of 10	700006281

G2 Accessories

Product Number	Detailed Description	Material ID
G2-SRF	G2-SRF (Small-Diameter-Cbl Fitting Kit)	760039875
G2-23BRKT	G2-23BRKT (23-IN Mounting Bracket Kit)	760039883
RMB-6-1/2	Rack Mounted Bracket for Six 1/2" Cable Glands	760058677
RMB-6-3/8	Rack Mounted Bracket for Six 3/8" Cable Glands	760058685
RMB-5-3/4	Rack Mounted Bracket for Five 3/4" Cable Glands	760058701
G2-Fiber Drum Kit	G2-Fiber Drum Kit	760056549
G2-1U-UP-Faceplate	Faceplate, G2 1U Shelf, Accepts 4 G2 Modular Cassettes	760060517
G2 Cover, Metal	G2 Cover, Metal	760055921

360G2 Shelf Accessories

Product Number	Detailed Description	Material ID
360G2-1U-TROUGH	360 1U Trough Assembly Kit	760086215
360G2-2U-TROUGH	360 2U Trough Assembly Kit	760093567

Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPATCH Plus

G2 Fiber Connectivity

Additional Fiber Connectivity

Tools & Consumables

4U Shelf Accessories



- Fiber Types & Reference
- Distribution Cables
- Indoor/Outdoor Cables
- Outside Plant Cables
- InstaPATCH Plus
- G2 Fiber Connectivity
- Additional Fiber Connectivity
- Tools & Consumables

360G2 Shelf Accessories

Product Number	Detailed Description	Material ID
360G2-4U-FLK	360 Flip Label Kit for 4U Shelf	760101410
360G2 1U-LABEL	Flip Label Kit for 1U Trough	760105676
360G2-2U-LABEL	Flip Label Kit for 2U Trough	760105684

Splice Kits – 4U Shelves

Product Number	Detailed Description	Material ID
SW-6AF-16SF	Fusion Splice Wallet Kit for up to 96 fibers, includes 6 splice tray - maximum 2 splice wallets per G2-4U for up to 192 fibers	760031054
SW-6AM-12SF	Mechanical Splice Wallet Kit for up to 72 fibers - maximum 2 splice wallets per G2-4U for up to 144 fibers	760031047
SW-00	Splice Wallet, accepts 6 splice trays	760027342
SW-03	Splice Wallet, accepts 3 splice trays	760057059
1AMF1-16LG	Fusion Splice Trays, holds 16 splices each, pack of 10	700006257
1AM1-12LG	Mechanical Splice Trays, holds 12 splices each, pack of 10	700006240
1AMF1-6LG	Mass Fusion Splice Trays, holds 6 splices each, pack of 10	700006281

G2 Accessories

Product Number	Detailed Description	Material ID
G2-CPB	Cable Protector Kit for 4U G2 Shelf	760026674
G2-XCPB	Expanded Cable Protector Kit for 4U G2 Shelf	760058669
G2-SFDA	Smoked Front Door, 4U G2 Shelf	760060442
SMB-KIT-8-1/2-360G2	Covers and 1/2" SMBs for 360G2	760128942
SMB-KIT-4-3/4-360G2	Covers and 3/4" SMBs for 360G2	760128959

SYSTIMAX 360

SYSTIMAX 360™ Ultra High Density Solutions

The SYSTIMAX 360™ Ultra High Density Solution is developed to meet today's most demanding high density and high performance fiber patching applications while also providing design flexibility and a migration path to next generation fiber networks in data centers. With a 50% increase in usable density, the UHD shelf is designed to support the most spacing demanding applications and provide space and cost saving solutions for data center customers.

Developed by CommScope Labs, the SYSTIMAX 360 UHD fiber optic solution is designed to support high density data center applications, such as SAN network areas. Available in LazrSPEED® and TeraSPEED®, the SYSTIMAX 360 UHD data center network fiber solution supports today's most demanding applications, while allowing fast deployment and an easy migration to the next generation technology.

SYSTIMAX 360 Ultra High Density Solution Includes:

- SYSTIMAX 360 Ultra High Density Shelf and Modules
- SYSTIMAX InstaPATCH 360 Modular Panels* – 1U and 4U
- SYSTIMAX InstaPATCH 360 Pre-Terminated Trunk Cables*
- SYSTIMAX InstaPATCH 360 Ruggedized Fanout Cables*
- SYSTIMAX InstaPATCH 360 Array Cords*
- SYSTIMAX Fiber Optic Patch Cords*

At the heart of the UHD solution is the new 360 UHD 1U fiber optic shelf. This shelf features a sliding tray and pivot hinges that enables field mounting of up to three factory-terminated and tested InstaPATCH® 360 UHD modules; each supporting up to 24 duplex LC or 24 (12 fiber) MPO connections. When fully populated, the UHD fiber optic shelf supports 72 duplex LC or 12 fiber MPO adapters – 50% more dense than high density shelves (compared to 48 duplex LC or MPO 1U shelf).

The UHD 1U fiber optic shelf facilitates management of high concentrations of fiber ports in an orderly, scalable product that allows incremental growth when needed as well as easy patch cord access, all in a small footprint shelf in order to conserve hard-to-find cabinet space.

Features and Benefits:

- 50% increase in usable density
- Available in LazrSPEED and TeraSPEED to support high performance applications
- Same footprint with duplex LC and MPO connections for simple migration from 10G serial to 40/100G parallel transmission
- 1U enhanced cable management features in a 1U footprint include individual fiber management trough per module and removable fiber cord management sleeve to prevent fiber pinching and tangling during MAC activity
- Each 1U shelf accommodates up to three InstaPATCH 360 LC modules for 144 fiber connections; or up to three MPO pass through modules for 864 fiber connections
- Modular design provides design flexibility and allows for a pay as you grow approach
- Allows for rack consolidation increasing space savings in densely populated network areas such as data center SAN environment
- Low Loss factory-terminated and tested module supports rapid deployment and uses OM4 fiber for extended distances or high bandwidth needs
- Supports up to (432) 10GbE, (72) 40GbE connections, or (36) 100GbE channels

*Available in LazrSPEED and TeraSPEED only. The UHD Solution is not available in OptiSPEED®.



InstaPATCH 360 UHD Module 48f LC LazrSPEED



3603D-1U-UP w(3) 3603M-48LC-LS A



CMS-2-02 Fiber Cord Management Sleeve

Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPATCH Plus

G2 Fiber Connectivity

Additional Fiber Connectivity

Tools & Consumables

SYSTIMAX 360

Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPATCH Plus

G2 Fiber Connectivity

Additional Fiber Connectivity

Tools & Consumables

SYSTIMAX 360™ Ultra High Density Shelf and Modules

Product Number	Detailed Description	Material ID
3603D-1U-UP	UHD Fiber Shelf, 1U, Empty	760110999
3603M-48LC-LS	InstaPATCH 360 UHD Module 48f LC LazrSPEED	760111013
3603M-48LC-SM	InstaPATCH 360 UHD Module 48f LC TeraSPEED	760111039
3603P-24MPO	UHD Adapter Panel, 24xMPO	760111153
CMS-2-02	Fiber Cord Management Sleeve	760112003

Pre-Loaded Shelves

Product Number	Detailed Description	Material ID
3603D-1U-144LC-LS-A	UHD Fiber Shelf with 3 InstaPATCH 360 Ultra High Density Modules, 48 fiber, LC, LazrSPEED, Polarity A	760136457
3603D-1U-144LC-LS-B	UHD Fiber Shelf with 3 InstaPATCH 360 Ultra High Density Modules, 48 fiber, LC, LazrSPEED, Polarity B	760136465
3603D-1U-144LC-SM-A	UHD Fiber Shelf with 3 InstaPATCH 360 Ultra High Density Modules, 48 fiber, LC, TeraSPEED, Polarity A	760136432
3603D-1U-144LC-SM-B	UHD Fiber Shelf with 3 InstaPATCH 360 Ultra High Density Modules, 48 fiber, LC, TeraSPEED, Polarity B	760136440
3603D-1U-72MPO	UHD Fiber Shelf with 3 InstaPATCH 360 24 Port MPO Adapter Panels	760136473

SYSTIMAX 360™ G2 Modular Cartridges



360G2 Cartridge 6-LC-LS-AQ-Pigtails

The LC and SC, cartridges and cartridges with pigtails are iPatch Ready; thus allowing a network system to be upgraded with intelligence in the future.

Features and Benefits:

- LC and SC, Cartridges, and Cartridges with Pigtails are iPatch Ready
- 360G2 Cartridges are reverse compatible with current 1000G2 and 600G2 Shelves
- Factory Terminated Fiber Pigtails
- 6 and 12 Fiber configurations for Pigtailed Cartridges
- Supports easy configurations for moves adds and changes
- No special Fiber Patch Cords Required for the iPatch Ready Field Upgrade
- No fiber disconnects to install iPatch Ready Field Upgrade

360G2 Modular Cartridges with Pigtails

Product Number	Detailed Description	Material ID
360G2 Cartridge 12-LC-LS-AQ-Pigtails	360G2 Cartridge 12 LC LazrSPEED, Aqua w/Pigtails, iPatch Ready	760109470
360G2 Cartridge 12-LC-MM-BG-Pigtails	360G2 Cartridge 12 LC OptiSPEED, Beige w/Pigtails, iPatch Ready	760109488
360G2 Cartridge 12-LC-SM-BL-Pigtails	360G2 Cartridge 12 LC TeraSPEED, Blue w/Pigtails, iPatch Ready	760109496
360G2 Cartridge 12-LCA-SM-GR-Pigtails	360G2 Cartridge 12 LCA TeraSPEED, Green w/Pigtails, iPatch Ready	760109504
360G2 Cartridge 6-SC-LS-AQ-Pigtails A	360G2 Cartridge 6 SC LazrSPEED, Aqua w/Pigtails A	760109512
360G2 Cartridge 6-SC-LS-AQ-Pigtails B	360G2 Cartridge 6 SC LazrSPEED, Aqua w/Pigtails B	760109520
360G2 Cartridge 6-SC-MM-BG-Pigtails A	360G2 Cartridge 6 SC OptiSPEED, Beige w/Pigtails A	760109538
360G2 Cartridge 6-SC-MM-BG-Pigtails B	360G2 Cartridge 6 SC OptiSPEED, Beige w/Pigtails B	760109546
360G2 Cartridge 6-SC-SM-BL-Pigtails A	360G2 Cartridge 6 SC TeraSPEED, Blue w/Pigtails A	760109553
360G2 Cartridge 6-SC-SM-BL-Pigtails B	360G2 Cartridge 6 SC TeraSPEED, Blue w/Pigtails B	760109561
360G2 Cartridge 6-SCA-SM-GR-Pigtails A	360G2 Cartridge 6 SCA TeraSPEED, Green w/Pigtails A	760109579
360G2 Cartridge 6-SCA-SM-GR-Pigtails B	360G2 Cartridge 6 SCA TeraSPEED, Green w/Pigtails B	760109587
360G2 Cartridge 6-ST-LS-AQ-Pigtails A	360G2 Cartridge 6 ST LazrSPEED, Aqua w/Pigtails A	760109603
360G2 Cartridge 6-ST-LS-AQ-Pigtails B	360G2 Cartridge 6 ST LazrSPEED, Aqua w/Pigtails B	760109611
360G2 Cartridge 6-ST-MM-BG-Pigtails A	360G2 Cartridge 6 ST OptiSPEED, Beige w/Pigtails A	760109629
360G2 Cartridge 6-ST-MM-BG-Pigtails B	360G2 Cartridge 6 ST OptiSPEED, Beige w/Pigtails B	760109637
360G2 Cartridge 6-ST-SM-BL-Pigtails A	360G2 Cartridge 6 ST TeraSPEED, Blue w/Pigtails A	760109645
360G2 Cartridge 6-ST-SM-BL-Pigtails B	360G2 Cartridge 6 ST TeraSPEED, Blue w/Pigtails B	760109652
360G2-MOD-BLANK-4PK	360G2 Mod Panel Blank (4 Panels)	760109462

360G2 Modular Cartridges without Pigtails

Product Number	Detailed Description	Material ID
360G2 Cartridge 12-LC-LS-AQ	360G2 Cartridge 12 LC LazrSPEED, Aqua, iPatch Ready	760109256
360G2 Cartridge 12-LC-MM-BG	360G2 Cartridge 12 LC OptiSPEED, Beige, iPatch Ready	760109264
360G2 Cartridge 12-LC-SM-BL	360G2 Cartridge 12 LC TeraSPEED, Blue, iPatch Ready	760109272
360G2 Cartridge 12-LCA-SM-GR	360G2 Cartridge 12 LCA TeraSPEED, Green, iPatch Ready	760109280
360G2 Cartridge 6-SC-LS-AQ	360G2 Cartridge 6 SC LazrSPEED, Aqua	760109298
360G2 Cartridge 6-SC-MM-BG	360G2 Cartridge 6 SC OptiSPEED, Beige	760109306
360G2 Cartridge 6-SC-SM-BL	360G2 Cartridge 6 SC TeraSPEED, Blue	760109314
360G2 Cartridge 6-SCA-SM-GR	360G2 Cartridge 6 SCA TeraSPEED, Green	760109322
360G2 Cartridge 6-ST-LS-AQ	360G2 Cartridge 6 ST LazrSPEED, Aqua	760109330
360G2 Cartridge 6-ST-MM-BG	360G2 Cartridge 6 ST OptiSPEED, Beige	760109348
360G2 Cartridge 6-ST-SM-BL	360G2 Cartridge 6 ST TeraSPEED, Blue	760109355

Fiber Types & Reference
Distribution Cables
Indoor/Outdoor Cables
Outside Plant Cables
InstaPATCH plus
G2 Fiber Connectivity
Additional Fiber Connectivity
Tools & Consumables

SYSTIMAX 360™ G2 Fiber Modular Distribution Panels

The LC Modular Distribution Panels are iPatch Ready; thus allowing a network system to be upgraded with intelligence in the future.

Features and Benefits:

- LC Modular Distribution Panels are iPatch Ready
- 360G2 Cartridges and Bezels are reverse compatible with current 1000G2 and 600G2 MOD Shelves
- Supports easy configurations for moves adds and changes
- No special Fiber Patch Cords Required for the iPatch Ready Field Upgrade
- No fiber disconnects to install iPatch Ready Field Upgrade

360DP-12LC-LS



360DP-6SC-SM



360G2 Modular Distribution Panels

Product Number	Detailed Description	Material ID
360DP-24LC-LS	360 Distribution Panel 24 LC LazrSPEED	760115907
360DP-24LC-MM	360 Distribution Panel 24 LC OptiSPEED	760115923
360DP-24LC-SM	360 Distribution Panel 24 LC TeraSPEED	760115915
360DP-24LCA-SM	360 Distribution Panel 24 LCA TeraSPEED	760115931
360DP-12LC-LS	360 Distribution Panel 12 LC LazrSPEED, iPatch Ready	760109363
360DP-12LC-MM	360 Distribution Panel 12 LC OptiSPEED, iPatch Ready	760109371
360DP-12LC-SM	360 Distribution Panel 12 LC TeraSPEED, iPatch Ready	760109389
360DP-12LCA-SM	360 Distribution Panel 12 LCA TeraSPEED, iPatch Ready	760109751
360DP-6SC-LS	360 Distribution Panel 6 SC LazrSPEED	760109397
360DP-6SC-MM	360 Distribution Panel 6 SC OptiSPEED	760109405
360DP-6SC-SM	360 Distribution Panel 6 SC TeraSPEED	760109413
360DP-6SCA-SM	360 Distribution Panel 6 SCA TeraSPEED	760109769
360DP-6ST-LS	360 Distribution Panel 6 ST LazrSPEED	760109421
360DP-6ST-MM	360 Distribution Panel 6 ST OptiSPEED	760109439
360DP-6ST-SM	360 Distribution Panel 6 ST TeraSPEED	760109447
360DP-2MPO	360 Distribution Panel 2 MPO	760107490
360DP-4MPO	360 Distribution Panel 4 MPO	760107508
360DP-6MPO	360 Distribution Panel 6 MPO	760107516
360DP-8MPO	360 Distribution Panel 8 MPO	760107524

Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPATCH Plus

G2 Fiber Connectivity

Additional Fiber Connectivity

Tools & Consumables

G2 Front Faceplates

Used in conjunction with G2 1U shelves, front faceplates accept standard simplex or duplex fiber optic adapters, LC, SC and ST. High-density LC and MPO panels are also available with adapters (Low Profile LC adapters have spring-loaded shutters).



Top: G2-1U-24LC-SPLX-EMT, Bottom: G2-1U-24LC-DPLX-EMT

Product Number	Detailed Description	Material ID
G2-1U-48LC-DPLX-LS-AQ	G2 1U Faceplate, w/48 Duplex Low Profile LC Adapters, LazrSPEED, Aqua	760055988
G2-1U-48LC-DPLX-MM-BG	G2 1U Faceplate, w/48 Duplex Low Profile LC Adapters, OptiSPEED, Beige	760056044
G2-1U-48LC-DPLX-SM-BL	G2 1U Faceplate, w/48 Duplex Low Profile LC Adapters, TeraSPEED, Blue	760056051
G2-1U-48LCA-DPLX-SM-GR	G2 1U Faceplate, w/48 Duplex Low Profile LC APC Adapters, TeraSPEED, Green	760069336
G2-1U-24LC-DPLX-EMT	G2 1U Faceplate, Accepts 24 Duplex JR/SR LC Adapters	760033845
G2-1U-24LC-SPLX-EMT	G2 1U Faceplate, Accepts 24 Simplex JR/SR LC Adapters	760033852
G2-1U-24SC-DPLX-EMT	G2 1U Faceplate, Accepts 24 Duplex SC Adapters	760033860
G2-1U-12SC-DPLX-EMT	G2 1U Faceplate, Accepts 12 Duplex SC Adapters	760033878
G2-1U-24SC-SPLX-EMT	G2 1U Faceplate, Accepts 24 Simplex SC Adapters	760033886
G2-1U-12SC-SPLX-EMT	G2 1U Faceplate, Accepts 12 Simplex SC Adapters	760033894
G2-1U-24ST-SPLX-EMT	G2 1U Faceplate, Accepts 24 Simplex ST Adapters	760033902
G2-1U-12ST-SPLX-EMT	G2 1U Faceplate, Accepts 12 Simplex ST Adapters	760033910

Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPATCH Plus

G2 Fiber Connectivity

Additional Fiber Connectivity

Tools & Consumables

Surface Mount Enclosure for Fiber Optic Applications



SME-4-IP

SYSTIMAX Solutions Surface Mount Enclosure is used for a combination of splicing and termination of fiber optic building cables, outside plant (OSP) cables or InstaPATCH 360 installations. The SME box is a wall-mounted enclosure that is designed to accommodate terminations of up to 96 LC fibers or 48 SC or 24 ST fibers. The enclosure can also be used as splice units to store 96 Single Fusion Splices, 72 Mechanical Splices with the addition of the appropriate splice holders.

Features and Benefits:

- SME has 4 Modular Openings to accept 360DM Modules, 360DP Panels or 360G2 Cartridges
- Security covers for BTW & Patch side
- Mount on wall at various orientations
- User access and behind the wall access are independently secured with separate pad locks (not included)
- Cable mounting with strain relief fitting
- Fiber cable protection on patch side
- RoloSplice kits available
- Cable Clamp compatible (not included)

Physical Specifications:

Depth: 3.7 in (9.4 cm)

Height: 11 in (27.9 cm)

Width: 13 in (33.0 cm)

Weight: 13 lbs (5.9 kg)

Cable Capacity: 8

Cable Access Port OD:

Large cable fitting entry 1.050 in (2.667 cm)

Small cable fitting entry 0.550 in (1.397 cm)

Panel System Capacity:

Connection Type	InstaPATCH Plus Module 1000 Series Panel System Capacity	G2 Cartridge System Capacity
LC	96	48
SC	48	24
ST	n/a	24

Product Number	Detailed Description	Material ID
SME-4-G2	Surface mount enclosure configured for four G2 modular components	760060426
RS-2AM-12SF	RoloSplice Kit E/W 2 Mechanical Splice Trays, for 1U Shelf	760039859
RS-2AF-16SF	RoloSplice Kit E/W 2 Fusion Splice Trays, for 1U Shelf	760039867
RS-4AM-12SF	RoloSplice Kit E/W 4 Mechanical Splice Trays, for 1U Shelf	760031849
RS-4AF-16SF	RoloSplice Kit E/W 4 Fusion Splice Trays, for 1U Shelf	760031856

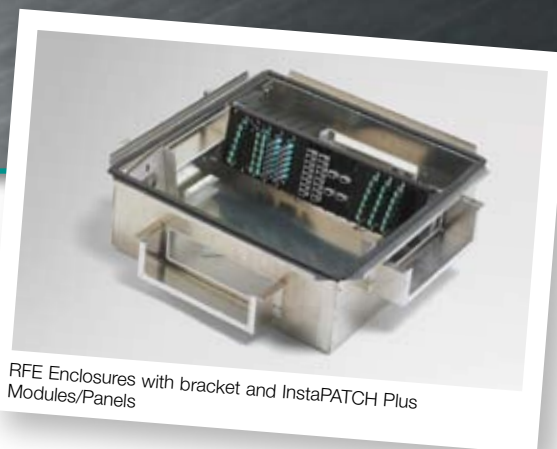
Raised Floor Enclosures (RFE)

SYSTIMAX® Solutions Raised Floor Enclosures provide for termination and distribution of fiber and low voltage cables beneath a raised floor, such as in a data center or laboratory. These enclosures are designed for installation within the stringer grid of an existing raised floor, which uses common 24" tiles, in accordance with local codes and regulations.

SYSTIMAX Solutions Raised Floor Enclosures feature two pairs of brackets, which provide for 3 rack units (3U or 5.25 in) of space per pair. The brackets may be easily pivoted to facilitate equipment installation and cable dressing/routing and locked into position when completed.

Features and Benefits:

- Installation is invisible—Raised floor enclosure fits under a 2'x2' standard raised floor tile
- Each enclosure features dual pairs of pivoting, threaded equipment mounting brackets, providing for 3 RMU per pair (6 RMU total) of rack-mount space for fiber or copper apparatus
- Enclosures may be safely installed into an air-handling space. Cables entering the enclosure may be sealed with fire-stopping foam strips, which are included.
- RFE-WF-07B enclosure features cable tie points on the floor of the enclosure to provide for easy cable management
- Intumescent foam sealed for fire blocking
- Plenum rated
- Enables zone distribution
- Serves as an Equipment Distribution Point
- Accommodates SYSTIMAX InstaPATCH 360 MP-1U, GigaSPEED® X10D PATCHMAX, 1100 Series, M2000 and M3000 Panels



RFE Enclosures with bracket and InstaPATCH Plus Modules/Panels

Product Number	Detailed Description	Material ID
RFE-WF-07A	24"W x 24"L x 7"D Wide Flange Raised Floor Enclosure	760060459
RFE-WF-07B	24"W x 24"L x 7"D Wide Flange Raised Floor Enclosure w/mount for management bracket	760060483
RFE-SF-07A	21.88"W x 21.88"L x 7"D Short Flange Raised Floor Enclosure	760060475
RFE-WF-12A	24"W x 24"L x 12"D Wide Flange Raised Floor Enclosure	760060467
RFE-PB	Floor Box Retrofit Bracket Kit	760041400

Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPATCH Plus

G2 Fiber Connectivity

Additional Fiber Connectivity

Tools & Consumables

Fiber Optic LIUs: 100A3, 200A, 200B, 100LS and 200LS

The Fiber Optic LIUs are modular enclosures that provide cross-connect and/or inter-connect, splicing and terminating capabilities for outside plant, building and riser cables.

The 100A3 LIU terminates a maximum of 24 fibers using LC connectors and 12 fibers using STII or SC connectors. With an optional splicing kit, it can accommodate up to 12 mechanical or 16 fusion splices. The 100A3 is made of an engineered white polycarbonate material and can accommodate two connector panels or one splice unit. The 100A3 LIU is both wall and frame mountable (with an optional frame mounting bracket) and feature five retainer rings arranged in a circular configuration to hold slack while not violating minimum bend radius requirements.

The 200A LIU has similar features as the 100A3 except that it is made of white aluminum and has two additional windows for connector panels. The 200A LIU terminates 48 fibers using LC connectors and 12 fibers using STII or SC connectors. With an optional splicing kit, it can accommodate up to 24 mechanical splices or 32 fusion splices.

The 200B LIU is used to terminate up to 48 fibers or splice 24 fibers. It is a National Electrical Manufacturers Association (NEMA) 3-rated cabinet. The 200B is a steel enclosure designed for industrial applications. The right side is designed to allow re-arrangement of jumpers or inter-connection to building cable. It comes with a removable outer door and an inner door for securing the network section. The 200B is both wall and frame mountable.

The 400A2 LIU directly terminates up to 96 fibers or accommodates 24 splices plus 48 terminations. The 400A may be ordered with or without key locks.

The wall mountable 100LS LIU is a black enclosure and can accommodate up to 24 fibers using LC connectors and up to 12 fibers using STII or SC connectors. With an optional splicing kit, it can accommodate up to 12 mechanical or 16 fusion splices. The 100LS holds two 10P panels.

The wall mountable 200LS LIU is a black enclosure and can accommodate up to 48 fibers using LC connectors and up to 24 fibers using STII or SC connectors. It can accommodate up to 12 mechanical or fusion splices using an optional splicing kit. The 200LS can accommodate up to 24 mechanical or 32 fusion splices with optional splicing kits, but the fiber termination capacity is decreased to 12 STII+ or SC connections, or 24 LC connections. The 200LS holds four 10P panels.

The LIU adapter panels are ordered separately.

The 742A mounting panel allows up to two 100 or 200 LIUs to be mounted in an inter-connection or cross-connect fashion. The panel may be mounted on either a 19 inch or a 23 inch (48.3 cm or 58.4 cm) frame.

The 1A1 adapter includes a 10 in (25.4 cm) conduit, a T-section, a 90-degree bend, two guides and two mounting screws. The adapter is used to guide and protect fibers running from a 12A-type clamp into two adjacent columns of LIUs. Each 100A3/200A LIU requires one 1A1 adapter. The 12A clamp must be ordered separately.

Physical Specifications:

- Height:** 100A3, 200A, 100LS, 200LS: 8.75 in (22.22 cm)
200B: 12.6 in (32.0 cm)
- Width:** 100A3, 200A, 100LS, 200LS: 7.5 in (19 cm)
200B: 17 in (43.18 cm)
- Depth:** 100A3, 100LS: 3 in (7.62 cm)
200A, 200LS: 4 in (10.16 cm)
200B: 5.25 in (13.34 cm)



100A3 LIU Enclosure



Left: 100LS LIU, Right: 200LS LIU

Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPATCH Plus

G2 Fiber Connectivity

Additional Fiber Connectivity

Tools & Consumables

LIU Termination and Splice Configuration and Capacity

LIU	No. of Terminations	No. of Splices	Additional Parts Needed
100A3	12 SC/ST (24 LC)	0	2 Panels with Adapters
100LS	12 SC/ST (24 LC)	16	2 Panels with Adapters and 1 Fusion Splice Kit
	0	32	2 Blank Panels and 1 Fusion Splice Kit + 1 Suppl. Kit
200A	24 SC/ST (48 LC)	0	4 Panels with Adapters
200LS	24 SC/ST (48 LC)	16	4 Panels with Adapters and 1 Fusion Splice Kit
200B	12 SC/ST (48 LC)	32	2 Panels with Adapters + 2 Blank Panels, and 1 Fusion Splice Kit + 1 Suppl. Kit
	0	48	4 Blank Panels, 2 Fusion Splice Kits + 1 Suppl. Kit

LIU Shelves

Product Number	Material ID
100A3 LIU	106896947
200A LIU	105535926
200B2 LIU	106939564
400A1 LIU w/o locks	106266901
400A2 LIU w/ locks	106414170
100LS LIU	108548868
200LS LIU	108548876
100A2 LIU E/W ST COUPLERS	106772668
100/200 LIU - Cartridges	760060426
100/200 LIU - Adapters	760060434
100/200 LIU - Modules	760060418
110B2 LIU	107942203
SHLF-210B2 (LIU) CAB 10X	108030347
1A1 LIGHTGUIDE HOLDER	105034474
742A	105483218
1A1 Adapter	105034482
10 BB Blank Panel	760046730

LIU Panels

Product Number	Detailed Description	Material ID
1200-Blank-WH	Blank Panel (5U), Pack of 6	700209653
10PLC-LS	Panel includes 12 LC Adapters, LazrSPEED	108627266
10PLC-MM	Panel includes 12 LC Adapters, OptiSPEED	108491697
10PLC-SM	Panel includes 12 LC Adapters, Single-mode	700025984
10PSC-LS	Panel includes 6 SC Adapters, LazrSPEED	108627274
10PSC-MM	Panel includes 6 SC Adapters, OptiSPEED	108259458
10PSC-SM	Panel includes 6 SC Adapters, Single-mode	700011430
10PST-LS	Panel includes 6 ST Adapters, LazrSPEED	108627282
10PST-MM	Panel includes 6 ST Adapters, OptiSPEED	108259466
10PST-SM	Panel includes 6 ST Adapters, Single-mode	700011422
10LC1-DPLX	Panel for 6 Duplex LC Adapters	107783755
10SC1-DPLX	Panel for 3 Duplex SC Adapters	107025835
10A (ST)	Panel for 6 Simplex ST Adapters	104141858
10 Blank	Blank Panel for 100LIU/200LIU	105276570
10LC Connector Panel	100A3 and 200A LIU and holds 6 Simplex LC Adapters	108365701
10SC1 Panel	100A3 and 200A LIU and holds 6 Simplex SC Adapters	106371800
10FC/04	10 TYPE FC/04 Connector Panel	105310999
10 TYPE	F93AK8524, 10 Type Connector Panel	107005068

Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPATCH Plus

G2 Fiber Connectivity

Additional Fiber Connectivity

Tools & Consumables

Product Number	Detailed Description	Material ID
10SC1 CONN PNL	F94AK8500, 10SC1 Connector Panel L E/W	107212490
LG 10B2/48/24	FANOUT AASY, LG 10B2/48/24	107939902
LGX Lock Set	LGX Lock Set	700011091
FDDI Panel	100A3 and 200A LIU Panel holds 3 MIC-to-ST C4010 Series Adapters	106021470

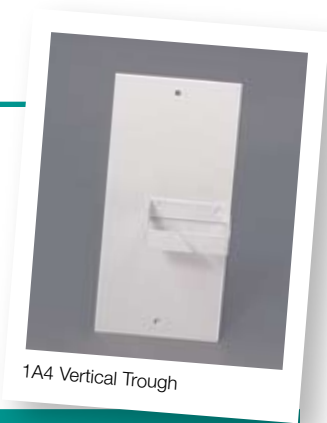
1A4 and 2A4 Vertical Fiber Optic Trough

The 1A4 and 2A4 Fiber Optic Troughs are vertical aluminum troughs used to arrange fiber patch cords vertically from one LIU to another in a multi-unit fiber cross-connect. The 1A4 trough is used with a 100A3 LIU. The 2A4 vertical trough is used with the 200A LIU. Two mounting screws are included.

Physical Specifications:

Height: 8.75 in (22.2 cm)

Width: 4.0 in (10.2 cm)



1A4 Vertical Trough

Product Number	Detailed Description	Material ID
1A4	For use with 100A3 LIU	104141866
2A4	For use with 200A LIU	106497753

1A6 and 2A6 Horizontal Fiber Optic Trough

The 1A6 and 2A6 Fiber Optic Troughs are horizontal aluminum troughs used to arrange patch cords so they run horizontally between Fiber Optic Interconnection Units (LIUs) or 1A4 or 2A4 Troughs. The 1A6 Fiber Optic Troughs may be used with 100A3 LIUs and 1A4 Fiber Optic Troughs. The 2A6 Fiber Optic Trough is used to connect vertical columns of 200A LIUs and 1A6 Jumper Troughs. The 2A6 Trough should be specified with single columns when protection and retention of cross-connect jumper cable slack is needed. Two mounting screws are included.

Physical Specifications:

Height: 1A6: 4.0 in (10.2 cm)

2A6: 5.0 in (12.7 cm)

Width: 11.5 in (29.2 cm)

Depth: 1A6: 4.0 in (10.2 cm)

2A6: 5.0 in (12.7 cm)



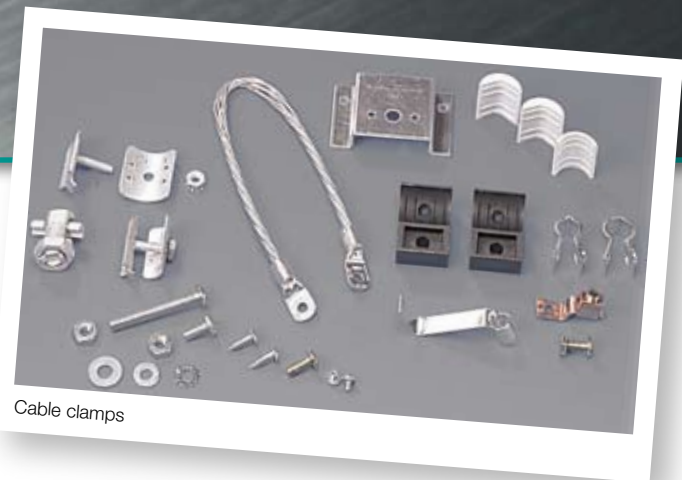
1A6 Horizontal Trough

Product Number	Detailed Description	Material ID
1A6	For use with 100A3 LIU	104141874
2A6	For use with 200A LIU	106497761

12A Grounding Clamp

The 12A1 Clamp is used to secure and ground one fiber optic metallic sheath cable. The clamp consists of a mounting bracket, two plastic half-clamps and suitable grounding hardware.

The 12A2 Clamp is similar to the 12A1 Clamp, but it does not include bonding and grounding hardware. The 12A2 Clamp is intended for use on non-metallic sheath fiber optic cables.



Cable clamps

Product Number	Detailed Description	Material ID
12A1 Clamp	Clamp for Metallic Sheath Cable	700025513
12A2 Clamp	Clamp for Dielectric Sheath Cable	700025653

D-181706 and D-181707 Mechanical and Fusion Splice Adapter Kits

The D-181706 and D-181707 Splice Adapter Kits adapt the 100, 200 and 400 LIUs for mechanical and fusion splicing, respectively. One D-Kit is required for the first 12 fibers, and one supplemental kit per unit is required for each additional set of 12 fibers.

D-181706 and D-181707 include Bracket Support with Screws (1), Drum Adapter (1), Splice Tray (1), PVC Tubing (1), Mechanical or Fusion Splice Organizer (1) and Instruction Sheet (1).

Supplemental Kits include Splice Tray (1), PVC Tubing (1) and Mechanical or Fusion Splice Organizer (1).



D-181706 Splice Adapter Kit

Product Number	Detailed Description	Material ID
D-181706	Mechanical Splice Kit	105289656
	Supplemental Mechanical Splice Kit	106726714
D-181707	Fusion Splice Kit	105289664
	Supplemental Fusion Splice Kit	106726706
LT1A-F/F	Fusion Splice Organizer Tray (Retains 32 Splices)	700025588
LT1A-M/M	Mechanical Splice Organizer Tray (Retains 24 Splices)	700217045
	Splice Tray Holder	700005069

Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPATCH Plus

G2 Fiber Connectivity

Additional Fiber Connectivity

Tools & Consumables

Keyed LC Connectors



Today's facilities often employ more than one network and need mechanical security to limit access and prevent inadvertent cross-connection. The Keyed LC Connectors 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. Keyed LC connectors will not mate with standard LC adapters, only the matching, same-color keyed adapter will mate with keyed connector.

Features and Benefits:

- 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
- 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

LC Series Connectors

Product Number	Detailed Description	Color	Qty/Pkg	Material ID
MFC-LCR-16-KBL	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, MM	Blue	1	760102327
MFC-LCR-16-KGR	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, MM	Green	1	760102335
MFC-LCR-16-KRD	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, MM	Red	1	760102343
MFC-LCR-16-KYL	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, MM	Yellow	1	760102350
MFC-LCR-16-KAQ	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, MM	Aqua	1	760102368
MFC-LCR-16-KRO	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, MM	Rose	1	760102376
MFC-LCR-16-KBR	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, MM	Brown	1	760102384
MFC-LCR-16-KSL	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, MM	Slate	1	760102392
MFC-LCR-16-KVI	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, MM	Violet	1	760102400
MFC-LCR-16-KOR	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, MM	Orange	1	760102418
MDC-LCR-16-KBL	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, MM	Blue	2	760102434
MDC-LCR-16-KGR	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, MM	Green	2	760102442
MDC-LCR-16-KRD	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, MM	Red	2	760102459
MDC-LCR-16-KYL	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, MM	Yellow	2	760102467
MDC-LCR-16-KAQ	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, MM	Aqua	2	760102475
MDC-LCR-16-KRO	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, MM	Rose	2	760102483
MDC-LCR-16-KBR	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, MM	Brown	2	760102491
MDC-LCR-16-KSL	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, MM	Slate	2	760102509
MDC-LCR-16-KVI	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, MM	Violet	2	760102517
MDC-LCR-16-KOR	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, MM	Orange	2	760102525
MFC-LCR-09-KBL	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, MM	Blue	1	760102541
MFC-LCR-09-KGR	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, MM	Green	1	760102558
MFC-LCR-09-KRD	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, MM	Red	1	760102566
MFC-LCR-09-KYL	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, MM	Yellow	1	760102574
MFC-LCR-09-KAQ	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, MM	Aqua	1	760102582
MFC-LCR-09-KRO	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, MM	Rose	1	760102590

Product Number	Detailed Description	Color	Qty/Pkg	Material ID
MFC-LCR-09-KBR	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, MM	Brown	1	760102608
MFC-LCR-09-KSL	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, MM	Slate	1	760102616
MFC-LCR-09-KVI	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, MM	Violet	1	760102624
MFC-LCR-09-KOR	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, MM	Orange	1	760102632
SFC-LCR-16-KBL	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, SM	Blue	1	760102657
SFC-LCR-16-KGR	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, SM	Green	1	760102665
SFC-LCR-16-KRD	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, SM	Red	1	760102673
SFC-LCR-16-KYL	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, SM	Yellow	1	760102681
SFC-LCR-16-KAQ	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, SM	Aqua	1	760102699
SFC-LCR-16-KRO	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, SM	Rose	1	760102707
SFC-LCR-16-KBR	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, SM	Brown	1	760102715
SFC-LCR-16-KSL	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, SM	Slate	1	760102723
SFC-LCR-16-KVI	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, SM	Violet	1	760102731
SFC-LCR-16-KOR	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, SM	Orange	1	760102749
SDC-LCR-16-KBL	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, SM	Blue	2	760102764
SDC-LCR-16-KGR	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, SM	Green	2	760102772
SDC-LCR-16-KRD	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, SM	Red	2	760102780
SDC-LCR-16-KYL	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, SM	Yellow	2	760102798
SDC-LCR-16-KAQ	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, SM	Aqua	2	760102806
SDC-LCR-16-KRO	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, SM	Rose	2	760102814
SDC-LCR-16-KBR	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, SM	Brown	2	760102822
SDC-LCR-16-KSL	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, SM	Slate	2	760102830
SDC-LCR-16-KVI	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, SM	Violet	2	760102848
SDC-LCR-16-KOR	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, SM	Orange	2	760102855
SFC-LCR-09-KBL	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, SM	Blue	1	760102897
SFC-LCR-09-KGR	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, SM	Green	1	760102905
SFC-LCR-09-KRD	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, SM	Red	1	760102913
SFC-LCR-09-KYL	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, SM	Yellow	1	760102921
SFC-LCR-09-KAQ	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, SM	Aqua	1	760102939
SFC-LCR-09-KRO	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, SM	Rose	1	760102947
SFC-LCR-09-KBR	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, SM	Brown	1	760102954
SFC-LCR-09-KSL	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, SM	Slate	1	760102962
SFC-LCR-09-KVI	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, SM	Violet	1	760102970
SFC-LCR-09-KOR	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, SM	Orange	1	760102988

Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPATCH Plus

G2 Fiber Connectivity

Additional Fiber Connectivity

Tools & Consumables

EZ-LC Connectors®



Top to bottom: cordage simplex, cordage duplex, BTW connector

The EZ-LC Connector® is a small form factor connector that is half the size of ST or SC connectors, yet has superior optical performance and reduced installation time. It uses the familiar insertion release mechanism similar to an RJ-45 plug and has a pull-proof design. The EZ-LC Connector allows engineers to design optical fiber infrastructures suited to the low loss needs of the High-Speed Data Networks.

The EZ-LC Connector offers a complete connection solution with a product range designed for field termination onto 900 micron fiber, 1.6 mm fiber cordage, multimode and single-mode fiber.

The Pre-Radius LC connector is the recommended connector for all SYSTIMAX installations. The Pre-Radius LC connector provides for faster installation, uses less polishing papers than the flat end-face connector and yields superior end-face geometry.

The superior insertion loss performance offered by the LC connector makes it the ideal connector for gigabit applications including all proposed 10 gigabit Ethernet specifications for multimode and single-mode fiber. The 0.9 mm fiber connector is designed to allow for the simple and speedy termination of the connector onto 0.9 mm fiber. So, whether terminating a cable into a patch panel, connection box or outlet, the LC connector offers the best-in-class solution.

The D-182959 upgrade kit (700005853), used in conjunction with tool kits 1032B5 or 1032F1, provides the necessary tools to terminate LC connectors to 0.9 mm buffered fiber or 1.6 mm cordage. For termination to 0.9 mm buffered fiber only, the D-182905 upgrade kit (700005895) may be used with the 1032B5 or 1032F1 kits. The 1032H mini tool kit (700005838) may be used to terminate LC connectors to 0.9 mm buffered fiber using the EZ anaerobic adhesive method. Additionally, the appropriate consumable kits are required to complete terminations.

The Pre-Radiused LC and the flat end-face LC use two different consumable kits and instructions. Please refer to the Fiber Optic connector consumable kit section in the catalog for details or reference the instruction sheets for the appropriate connector from the SYSTIMAX Solutions Web Site Instruction Sheets.

Physical Specifications:

Length: 1.259 in (3.2 cm)
Tip: Ceramic

Optical Specifications:

Multimode: Average Loss: 0.1 dB Standard deviation 0.1 dB
Single-mode: Average Loss: 0.2 dB Standard deviation 0.1 dB
Insertion Loss Change: <0.3 dB Mating durability for 500 reconnect
 <0.3 dB Temperature stability -40°F to 167°F (-40°C to 75°C)
Cable Retention: 2 lbs for buffered fiber, 10 lbs for 1.6 mm cordage

LC Series Connectors

Product Number	Detailed Description	Fiber Type	Color	Qty/Pkg	Material ID
MFC-LCR-09-BG	BTW LC Connector, Pre-radiused, for 0.9mm Fiber	MM	Beige	1	760034181
MFC-LCR-09-BG-100-BULK-PACK	BTW LC Connector, Pre-radiused, for 0.9mm Fiber	MM	Beige	100	760091546
SFC-LCR-09-BL	BTW LC Connector, Pre-radiused, for 0.9mm Fiber	SM	Blue	1	760034199
SFC-LCR-09-BL-100-BULK-PACK	BTW LC Connector, Pre-radiused, for 0.9mm Fiber	SM	Blue	100	760031401
MFC-LCR-16-BG	LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage	MM	Beige	1	760034140
MFC-LCR-16-BG-100-BULK-PACK	LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage	MM	Beige	100	760091553
MFC-LCR-30-BG	LC Connector, Pre-radiused, Simplex, for 3.0mm Cordage	MM	Beige	1	760111476
MFC-LCR-30-BG-100-BULK-PACK	LC Connector, Pre-radiused, Simplex, for 3.0mm Cordage	MM	Beige	1	760111484
SFC-LCR-16-BL	LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage	SM	Blue	1	760034173
SFC-LCR-16-BL-100-BULK-PACK	LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage	SM	Blue	100	760091561
SFC-LCR-30-BL	LC Connector, Pre-radiused, Simplex, for 3.0mm Cordage	SM	Blue	1	760111492
SFC-LCR-30-BL-100-BULK-PACK	LC Connector, Pre-radiused, Simplex, for 3.0mm Cordage	SM	Blue	100	760111500
MDC-LCR-16-BG	LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage	MM	Beige	2	760034157
MDC-LCR-16-BG-100-BULK-PACK	LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage	MM	Beige	200	760034165
MDC-LCR-30-BG	LC Connector, Pre-radiused, Duplex, for 3.0mm Cordage	MM	Beige	2	760111518
MDC-LCR-30-BG-100-BULK-PACK	LC Connector, Pre-radiused, Duplex, for 3.0mm Cordage	MM	Beige	200	760111526
SDC-LCR-16-BL	LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage	SM	Blue	2	760091439
SDC-LCR-16-BL-100-BULK-PACK	LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage	SM	Blue	200	760091447
SDC-LCR-30-BL	LC Connector, Pre-radiused, Duplex, for 3.0mm Cordage	SM	Blue	2	760111534
SDC-LCR-30-BL-100-BULK-PACK	LC Connector, Pre-radiused, Duplex, for 3.0mm Cordage	SM	Blue	200	760111542

Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPATCH Plus

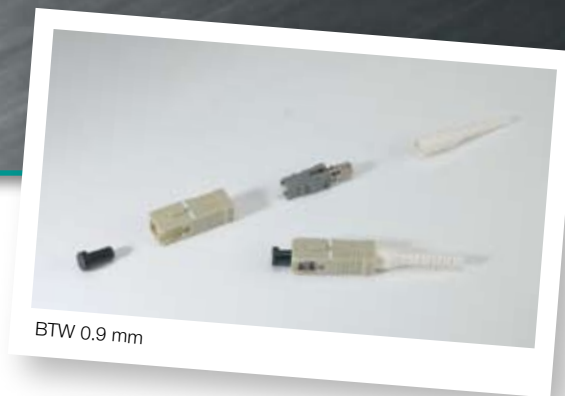
G2 Fiber Connectivity

Additional Fiber Connectivity

Tools & Consumables

EZ-SC Connectors®

The EZ-SC Connector® is a square body fiber optic connector, with great optical performance and fast installation time. It uses a push-pull design, which allows for quick and easy insertions into patch panels and adapters. The physical and optical performance of the EZ-SC allows engineers to design optical fiber infrastructures suited to the low loss needs of the High-Speed Data Networks. The EZ-SC Connector offers a complete connection solution with a product range designed for field termination onto 900 micron fiber, 1.6 mm fiber cordage, 2.9 mm fiber cordage, multimode and single-mode fiber.



SC connector plugs can be mounted on fibers in the field using the 1032B5, 1032B6 or 1032F1 Tool Kit. When mounting to only 0.9 mm buffered fiber, the 1032H Tool Kit may be used.

Physical Specifications:

- Length:** B Series: 2.05 in (5.2 cm) for 900 μm application
B Series: 2.2 in (5.6 cm) for 3 mm application
- Operating Temperature:** -40°F to 185°F (-40°C to 85°C)
- Min. Axial Load:** Cable: 29.92 lbs (13.6 kg)
Buffer: 1.98 lbs (0.9 kg)

Optical Specifications:

- Average Loss:** Multimode: 0.3 dB
Single-mode: 0.2 dB (tuned), 0.3 dB (untuned) for SC connectors
- Maximum Loss:** MM and SM: 0.5 dB
- Mating Durability: Insertion loss change for 200 reconnects:** <0.3 dB (test per Telcordia GR326)
- Temperature Stability (-40°C to 75 °C):** ≤0.3 dB increase

SC Series Connectors

Product Number	Detailed Description	Fiber Type	Color	Qty/Pkg	Material ID
MFC-SCR-09-BG	BTW SC Connector, Pre-radiused, for 0.9mm Fiber	MM	Beige	1	760007070
MFC-SCR-09-BG-100-BULK-PACK	BTW SC Connector, Pre-radiused, for 0.9mm Fiber	MM	Beige	100	760007088
SFC-SCR-09-BL	BTW SC Connector, Pre-radiused, for 0.9mm Fiber	SM	Blue	1	760007112
SFC-SCR-09-BL-100-BULK-PACK	BTW SC Connector, Pre-radiused, for 0.9mm Fiber	SM	Blue	100	760009562
MFC-SCR-16-BG	SC Connector, Pre-radiused, Simplex, for 1.6mm Cordage	MM	Beige	1	760112227
MFC-SCR-16-BG-100-BULK-PACK	SC Connector, Pre-radiused, Simplex, for 1.6mm Cordage	MM	Beige	100	760112235
MFC-SCR-30-BG	SC Connector, Pre-radiused, Simplex, for 3.0mm Cordage	MM	Beige	1	760007047
MFC-SCR-30-BG-100-BULK-PACK	SC Connector, Pre-radiused, Simplex, for 3.0mm Cordage	MM	Beige	1	760007054
SFC-SCR-16-BL	SC Connector, Pre-radiused, Simplex, for 1.6mm Cordage	SM	Blue	1	760112243
SFC-SCR-16-BL-100-BULK-PACK	SC Connector, Pre-radiused, Simplex, for 1.6mm Cordage	SM	Blue	100	760112250
SFC-SCR-30-BL	SC Connector, Pre-radiused, Simplex, for 3.0mm Cordage	SM	Blue	1	760007096
SFC-SCR-30-BL-100-BULK-PACK	SC Connector, Pre-radiused, Simplex, for 3.0mm Cordage	SM	Blue	100	760019554
MDC-SCR-16-BG	SC Connector, Pre-radiused, Duplex, for 1.6mm Cordage	MM	Beige	2	760112268
MDC-SCR-16-BG-100-BULK-PACK	SC Connector, Pre-radiused, Duplex, for 1.6mm Cordage	MM	Beige	200	760112276
MDC-SCR-30-BG	SC Connector, Pre-radiused, Duplex, for 3.0mm Cordage	MM	Beige	2	760112284
MDC-SCR-30-BG-100-BULK-PACK	SC Connector, Pre-radiused, Duplex, for 3.0mm Cordage	MM	Beige	200	760112292
SDC-SCR-16-BL	SC Connector, Pre-radiused, Duplex, for 1.6mm Cordage	SM	Blue	2	760112300
SDC-SCR-16-BL-100-BULK-PACK	SC Connector, Pre-radiused, Duplex, for 1.6mm Cordage	SM	Blue	200	760112318
SDC-SCR-30-BL	SC Connector, Pre-radiused, Duplex, for 3.0mm Cordage	SM	Blue	2	760112326
SDC-SCR-30-BL-100-BULK-PACK	SC Connector, Pre-radiused, Duplex, for 3.0mm Cordage	SM	Blue	200	760112334

Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPATCH Plus

G2 Fiber Connectivity

Additional Fiber Connectivity

Tools & Consumables

EZ-ST Connectors®



The EZ-ST Connector® is a convenient twist lock connector with a nickel plated brass outer housing designed for applications where the added security of a twist lock connection is needed. The EZ-ST Connector offers solid performance, standard density and a complete connection solution with a product range designed for field termination onto 900 micron fiber, 1.6 mm fiber cordage, 2.9 mm fiber cordage, multimode and single-mode fiber.

STII Connector plugs can be mounted on fibers in the field using the 1032B5, 1032B6 or 1032F1 Tool Kits. The 1032H Tool Kit may be used when mounting connectors on 0.9 mm fiber.

Physical Specifications:

Length: 2.2 in (5.6 cm)
Temperature Stability -40°F to 185°F (-40°C to 85°C): <0.1 dB increase
Loss Repeat (500 Reconnectors): <0.2 dB
Min. Axial Load: Cable: 35 lbs (15.9 kg)

Optical Specifications:

Multimode Average Loss: 0.3 dB
Single-mode Average Loss: 0.3 dB

STII Connectors

Product Number	Detailed Description	Fiber Type	Cordage OD (mm)	Qty/Pkg	Material ID
MFC-STU	ST II Connector, Pre-radiused	MM	0.9/2.4/3.0	1	700004328
MFC-STU-100-BULK	ST II Connector, Pre-radiused	MM	0.9/2.4/3.0	100	700004310
SFC-STU	ST II Connector, Pre-radiused	SM	0.9/2.4/3.0	1	700011067
SFC-STU-100-BULK	ST II Connector, Pre-radiused	SM	0.9/2.4/3.0	100	760113241

Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPATCH Plus

G2 Fiber Connectivity

Additional Fiber Connectivity

Tools & Consumables

Qwik II-LC Connector®

Qwik II-SC Connector®

Qwik II-ST Connector®



Qwik II Connectors

The SYSTIMAX Qwik LC/SC/ST II Connectors are factory pre-polished, field installable connectors that eliminate the need for hand polishing in the field. Proven mechanical splice technology ensures precision fiber alignment. A factory pre-cleaved fiber stub and a proprietary index-matching gel combine to offer an immediate low loss termination to either single-mode or multimode optical fibers.

Applications:

- High Speed applications such as 10 Gigabit Ethernet
- Multimode and Single-mode
- Central Offices, Local Area Networks (LAN), computer backplane connections, computer peripheral interconnections

Features and Benefits:

- Compatible with 250µm and 900µm optical fibers
- Color coded per industry standard requirements to aide in identification during and after installation
- Factory-installed wedge clip is included with each connector
- Wedge is removed and discarded upon completion of the termination
- An innovative translucent wedge enables the use of a common VFI to provide a “pass/fail” signal once physical contact is achieved
- Comes packaged in a 25 counter installer pack or individual bags.

Physical Specifications:

Length: LC, 1.25 in (3.18 cm), SC 2.05 in (5.2 cm), ST 2.2 in (5.6 cm)
Tip: Ceramic

Optical Specifications:

Average Loss MM & SM: LC 0.2 dB, SC 0.3 dB, ST 0.3 dB

Insertion Loss Change:

- LC: <0.2 dB Mating durability for 500 reconnect
<0.3 dB Temperature stability -14° F to 140°F (-10°C to 60°C)
- SC & ST: <0.3 dB Mating durability for 500 reconnect
<0.3 dB Temperature stability -14 F to 140°F (-10°C to 60°C)

Cable Retention: 2 lbs for buffered fiber

Product Number	Detailed Description	Material ID
MFC-LCF-09-5X	Qwik II-LC BTW Connector, LS	760117887
MFC-LCF-09-5X-25-PACK	Qwik II-LC BTW Connector, LS 25 Blister Pack	760117911
MFC-LCF-09-6X	Qwik II-LC BTW Connector, OS	760117903
MFC-LCF-09-6X-25-PACK	Qwik II-LC BTW Connector, OS 25 Blister Pack	760117937
MFC-SCF-09-5X	Qwik II-SC BTW Connector, LS	760117945
MFC-SCF-09-5X-25-PACK	Qwik II-SC BTW Connector, LS 25 Blister Pack	760117978
MFC-SCF-09-6X	Qwik II-SC BTW Connector, OS	760117960
MFC-SCF-09-6X-25-PACK	Qwik II-SC BTW Connector, OS 25 Blister Pack	760117994
MFC-STF-09-5X	Qwik II-ST BTW Connector, LS	760118000
MFC-STF-09-5X-25-PACK	Qwik II-ST BTW Connector, LS 25 Blister Pack	760118034
MFC-STF-09-6X	Qwik II-ST BTW Connector, OS	760118026
MFC-STF-09-6X-25-PACK	Qwik II-ST BTW Connector, OS 25 Blister Pack	760118059
SFC-LCF-09-8X	Qwik II-LC BTW Connector, TS	760117895
SFC-LCF-09-8X-25-PACK	Qwik II-LC BTW Connector, TS 25 Blister Pack	760117929
SFC-SCF-09-8X	Qwik II-SC BTW Connector, TS	760117952
SFC-SCF-09-8X-25-PACK	Qwik II-SC BTW Connector, TS 25 Blister Pack	760117986
SFC-STF-09-8X	Qwik II-ST BTW Connector, TS	760118018
SFC-STF-09-8X-25-PACK	Qwik II-ST BTW Connector, TS 25 Blister Pack	760118042

Accessories

Detailed Description	Material ID
QK-TERM-TOOL-KIT-QWIK II	760119131
Cleaver, Fiber Optic	760070706
Qwik-LC Fiber Holder/Template	760070672
Qwik-SC Fiber Holder/Template	760070680
Qwik-ST Fiber Holder/Template	760070698

Fiber Types & Reference

Distribution Cables

Indoor/Outdoor Cables

Outside Plant Cables

InstaPATCH Plus

G2 Fiber Connectivity

Additional Fiber Connectivity

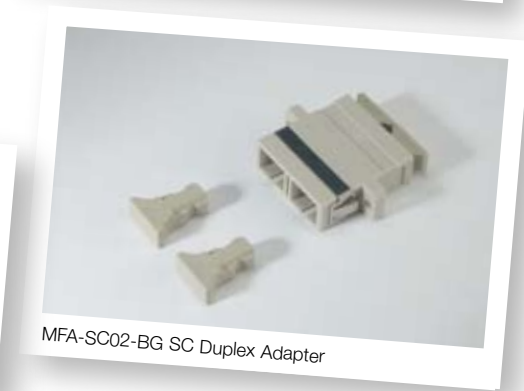
Tools & Consumables

Fiber Optic Adapters

Fiber optic adapters are used in conjunction with the fiber optic panels to ensure proper alignment of the fibers when mating two connectors. The adapters are offered in multimode and single-mode and are color-coded for easy fiber identification. The adapters are generally offered as individually packed with dust cap included. For selected adapters, packages of 100 adapters are offered.



SFA-LC02 LC Duplex Adapter



MFA-SC02-BG SC Duplex Adapter



MFA-ST01 ST Adapter



Keyed LC Adapters

Keyed LC Adapters

Product Number	Detailed Description	Color	Qty/Pkg	Material ID
KFA-LC02-KAQ	LC Duplex Adapter, Keyed	Aqua	1	760090621
KFA-LC02-KBL	LC Duplex Adapter, Keyed	Blue	1	760057190
KFA-LC02-KBR	LC Duplex Adapter, Keyed	Brown	1	760090647
KFA-LC02-KGR	LC Duplex Adapter, Keyed	Green	1	760057208
KFA-LC02-KOR	LC Duplex Adapter, Keyed	Orange	1	760090670
KFA-LC02-KRD	LC Duplex Adapter, Keyed	Red	1	760057216
KFA-LC02-KRO	LC Duplex Adapter, Keyed	Rose	1	760090639
KFA-LC02-KSL	LC Duplex Adapter, Keyed	Slate	1	760090654
KFA-LC02-KVI	LC Duplex Adapter, Keyed	Violet	1	760090662
KFA-LC02-KYL	LC Duplex Adapter, Keyed	Yellow	1	760057224

- Fiber Types & Reference
- Distribution Cables
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LC Adapters

Product Number	Detailed Description	Color	Qty/Pkg	Material ID
MFA-LC01-AQ	LC Adapter, Simplex, LazrSPEED	Aqua	1	760025338
MFA-LC01-BG	LC Adapter, Simplex, OptiSPEED	Beige	1	700002173
SFA-LC01-BL	LC Adapter, Simplex, TeraSPEED	Blue	1	700002132
AFA-LC01-GR	LC Adapter, Simplex, APC	Green	1	760036293
MFA-LC02-AQ	LC Adapter, Duplex, LazrSPEED	Aqua	1	108622887
MFA-LC02-BG	LC Adapter, Duplex, OptiSPEED	Beige	1	700002355
SFA-LC02-BL	LC Adapter, Duplex, TeraSPEED	Blue	1	700002215
AFA-LC02-GR	LC Adapter, Duplex, APC	Green	1	760036301
MFA-LC02-AQ-100-BULK-PACK	LC Adapter, Duplex, LazrSPEED, Bulk Pack	Aqua	100	760113134
MFA-LC02-BG-100-BULK-PACK	LC Adapter, Duplex, OptiSPEED, Bulk Pack	Beige	100	760115196
SFA-LC02-BL-100-BULK-PACK	LC Adapter, Duplex, TeraSPEED, Bulk Pack	Blue	100	760115204

LC Low Profile Adapters

Product Number	Detailed Description	Color	Qty/Pkg	Material ID
MFA-LC02-AQ/LP-SHUTTERED	LC Adapter, Duplex, Shuttered, LazrSPEED	Aqua	1	760056002
MFA-LC02-BG/LP-SHUTTERED	LC Adapter, Duplex, Shuttered, OptiSPEED	Beige	1	760056010
SFA-LC02-BL/LP-SHUTTERED	LC Adapter, Duplex, Shuttered TeraSPEED	Blue	1	760056028
AFA-LC02-GR/LP-SHUTTERED	LC Adapter, Duplex, Shuttered, APC	Green	1	760056036
MFA-LC02-AQ/LP	LC Adapter, Duplex, Non-Shuttered, LazrSPEED	Aqua	1	760115212
MFA-LC02-BG/LP	LC Adapter, Duplex, Non-Shuttered, OptiSPEED	Beige	1	760115220
SFA-LC02-BL/LP	LC Adapter, Duplex, Non-Shuttered, TeraSPEED	Blue	1	760115238
AFA-LC02-GR/LP	LC Adapter, Duplex, Non-Shuttered, APC	Green	1	760115246
MFA-LC02-AQ/LP-50-BULK-PACK-SHUTTERED	LC Adapter, Duplex, Shuttered, LazrSPEED, Bulk Pack	Aqua	50	760115253
MFA-LC02-BG/LP-50-BULK-PACK-SHUTTERED	LC Adapter, Duplex, Shuttered, OptiSPEED, Bulk Pack	Beige	50	760115279
SFA-LC02-BL/LP-50-BULK-PACK-SHUTTERED	LC Adapter, Duplex, Shuttered, TeraSPEED, Bulk Pack	Blue	50	760115261
AFA-LC02-GR/LP-50-BULK-PACK-SHUTTERED	LC Adapter, Duplex, Shuttered, APC, Bulk Pack	Green	50	760115287
MFA-LC02-AQ/LP-50-BULK-PACK	LC Adapter, Duplex, Non-Shuttered, Bulk Pack	Aqua	50	760113142
MFA-LC02-BG/LP-50-BULK-PACK	LC Adapter, Duplex, Non-Shuttered, Bulk Pack	Beige	50	760113167
SFA-LC02-BL/LP-50-BULK-PACK	LC Adapter, Duplex, Non-Shuttered, Bulk Pack	Blue	50	760113159
AFA-LC02-GR/LP-50-BULK-PACK	LC Adapter, Duplex, Non-Shuttered, APC, Bulk Pack	Green	50	760113175

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SC Adapters

Product Number	Detailed Description	Color	Qty/Pkg	Material ID
MFA-SC01-AQ	SC Adapter, Simplex, LazrSPEED	Aqua	1	760115543
MFA-SC01-BG	SC Adapter, Simplex, OptiSPEED	Beige	1	108223181
SFA-SC01-BL	SC Adapter, Simplex, TeraSPEED	Blue	1	700004807
AFA-SC01-GR	SC Adapter, Simplex, APC	Green	1	760036277
MFA-SC02-AQ	SC Adapter, Duplex, LazrSPEED	Aqua	1	108622895
MFA-SC02-BG	SC Adapter, Duplex, OptiSPEED	Beige	1	700004880
SFA-SC02-BL	SC Adapter, Duplex, TeraSPEED	Blue	1	700004815
AFA-SC02-GR	SC Adapter, Duplex, APC	Green	1	760036285
MFA-SC02-AQ-100-BULK-PACK	SC Adapter, Duplex, LazrSPEED, Bulk Pack	Aqua	50	760115550
MFA-SC02-BG-100-BULK-PACK	SC Adapter, Duplex, OptiSPEED, Bulk Pack	Beige	50	760115576
SFA-SC02-BL-100-BULK-PACK	SC Adapter, Duplex, TeraSPEED, Bulk Pack	Blue	50	760115584

SC Flangeless Adapters

Product Number	Detailed Description	Color	Qty/Pkg	Material ID
MFA-SC01-AQ-FLANGELESS	LC Adapter, Simplex, Flangeless, LazrSPEED	Aqua	1	760115592
MFA-SC01-BG-FLANGELESS	LC Adapter, Simplex, Flangeless, OptiSPEED	Beige	1	760115568
SFA-SC01-BL-FLANGELESS	LC Adapter, Simplex, Flangeless, TeraSPEED	Blue	1	700004799
AFA-SC01-GR-FLANGELESS	LC Adapter, Simplex, Flangeless, APC	Green	1	760115667
MFA-SC02-AQ-FLANGELESS	LC Adapter, Duplex, Flangeless, LazrSPEED	Aqua	1	760115600
MFA-SC02-BG-FLANGELESS	LC Adapter, Duplex, Flangeless, OptiSPEED	Beige	1	760115626
SFA-SC02-BL-FLANGELESS	LC Adapter, Duplex, Flangeless, TeraSPEED	Blue	1	760115642
AFA-SC02-GR-FLANGELESS	LC Adapter, Duplex, Flangeless, APC	Green	1	760115675
MFA-SC02-AQ-FLANGELESS-50-BULK-PACK	LC Adapter, Duplex, Flangeless, LazrSPEED, Bulk Pack	Aqua	50	760115618
MFA-SC02-BG-FLANGELESS-50-BULK-PACK	LC Adapter, Duplex, Flangeless, OptiSPEED, Bulk Pack	Beige	50	760115634
SFA-SC02-BL-FLANGELESS-50-BULK-PACK	LC Adapter, Duplex, Flangeless, TeraSPEED, Bulk Pack	Blue	50	760115659
AFA-SC02-GR-FLANGELESS-50-BULK-PACK	LC Adapter, Duplex, Flangeless, APC, Bulk Pack	Green	50	760115683

ST Adapters

Product Number	Detailed Description	Fiber Type	Qty/Pkg	Material ID
MFA-ST01	ST Adapter, Hex Nut	MM	1	700004864
SFA-ST01	ST Adapter, Hex Nut	SM	1	700011133
MFA-ST01-100-BULK-PACK	ST Adapter, Hex Nut, Bulk Pack	MM	100	700004906
SFA-ST01-100-BULK-PACK	ST Adapter, Hex Nut, Bulk Pack	SM	100	700011075
MFA-ST01-CMN	ST Adapter, Circular Nut	MM	1	700004914
SFA-ST01-CMN	ST Adapter, Circular Nut	SM	1	760000638
MFA-ST01-CMN-100-BULK-PACK	ST Adapter, Circular Nut, Bulk Pack	MM	100	760116756
SFA-ST01-CMN-100-BULK-PACK	ST Adapter, Circular Nut, Bulk Pack	SM	100	760116764

M81 Series Modular Fiber Optic Adapter with Mounting Module

The M81 M-Series Modular Coupling/Adapter modules are intended to be used as fiber optic outlets for FTTH applications.

The M81LS duplex adapters include an integrated fiber management spool that provide a duplex LC connection with fiber management. The adapters can be used in modular faceplates as shown in the picture. They are color-coded for ease of fiber type identification, and provide slack management to maintain proper bend radius behind the wall.

The M81ST-B adapter module comes packaged with an M81 type mounting module with a circular opening and an ST fiber optic Coupling/Adapter (A2000 multimode). The ST Coupling/Adapter is mounted on the module via a locking washer and nut. The assembly mates two STII fiber optic connectors.

The M81SC-B adapter module comes packaged with an M81 type mounting module with a rectangular opening and a simplex SC fiber optic Coupling/Adapter (C6000A-5). The SC Coupling/Adapter snaps into the rectangular opening of the M81 type mounting module. The assembly mates two simplex SC fiber optic connectors.

The M81ST-B and the M81SC-B contain four collars: black, ivory, white and gray. The M81LC-029 is clear.

The M81LC-029 adapter module comes packaged with an M81 type mounting module with a rectangular opening and an LC adapter. The LC Coupling/Adapter snaps into the rectangular opening of the M81 type mounting module. A minimum 1.5 inch diameter fiber bend radius behind the adapter is recommended.

The M81LCS-LS comes with a M81 type mounting module and an aqua duplex LC adapter with spring loaded shutters.

Once assembled, the coupling/adapter modules can be mounted in any of the CommScope faceplates, surface mount boxes, consolidation point boxes, M1000 MULTIMAX panels, frames or mounting collars.

Physical Specifications:

- Height:** M81ST-B, M81SC-B: 0.69 in (17 mm)
M81LC-029: 0.69 in (17 mm)
- Width:** M81ST-B, M81SC-B: 0.73 in (18 mm)
M81LC-029: 0.65 in (16 mm)
- Depth:** M81ST-B, M81SC-B: 0.39 in (9.6 mm)
M81LC-029: 0.3 in (7.4 mm)



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Product Number	Detailed Description	Fiber Type	Color	Material ID
M81LS-MM Spool	LC Duplex Adapter w/ Fiber Spool	MM	Beige	108562174
M81LS-SM Spool	LC Duplex Adapter w/ Fiber Spool	SM	Blue	700007420
M81LS-LS Spool	LC Duplex Adapter w/ Fiber Spool	MM	Aqua	108623109
M81SC-B	SC Coupling/Adapter with Mounting Module	SM/MM	Blue	108009416
M81ST-B	ST Coupling/Adapter with Mounting Module	MM	Metal	108009408
M81LC-029	LC Adapter with Clear Collar	MM	Beige	107782641
M81LC-029-Collar	Clear Plastic Collar for LC, Pack of 25		Clear	760010090
M81LCS-LS	Shuttered LC Adapter Kit	MM	Aqua	760031989

EZ Mini Tool Kit for LC, SC and ST Connectors



1032H Mini Tool Kit

The 1032H Mini Tool Kit is intended for connectorization of buffered fiber with LC, SC and ST multimode or single-mode connectors using the anaerobic (EZ) method.

The kit does not contain the crimp tool for cordage connectorization.

Crimp tool must be ordered separately. Adhesive and polishing paper must be ordered separately.

Product Number	Detailed Description	Material ID
1032H Mini Tool Kit	Tool Kit for Anaerobic EZ LC/SC/ST BTW connectors	700005838
D-182737 Tool Upgrade Kit	Upgrades 1032B, 1032B1 and 1032F Tool Kits	700005952

Epoxy and Polish Tool Kits for LC, SC and STII Connectors



1032B5

The 1032B5 Tool Kit contains all the tools needed to assemble ST or SC on cordage or buffered fiber using EZ or epoxy methods. The Tool Kit will also provide necessary tools and instructions to field assemble LC multimode or single-mode connectors on 900 micron buffered fiber. LC connectors can be assembled along with use of D-182959 LC connector termination upgrade tool kit. A 200A 120 VAC Curing Oven is included.

The 1032B6 Tool Kit is for international use, where the only difference from the 1032B5 is that the 200A Curing Oven is replaced by the 200A1 220 VAC Curing Oven.



D-182959 KIT

Product Number	Detailed Description	Material ID
1032B5	Tool Kit SC/LC/ST Connector Heat Cure Epoxy (North America)	700006026
1032B6	Tool Kit SC/ST Connector Heat Cure Epoxy (International)	700005960
1032F1	EZ SC/ST Tool Kit (Curing Oven Not Included)	700005929
D-182959 KIT	LC Jumper Upgrade Kit	700005853

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Universal Polishing Kits

SYSTIMAX Solutions universal polishing kits make terminations of all SYSTIMAX fiber connectors easier and faster to install. This procedure allows contractors, distributors and end-users to only order one polishing kit for multimode connectors and one polishing kit for single-mode connectors. Universal polishing kits are utilized for SC, ST and pre-radius LC connectors. D-182977 polishing kit should be utilized for flat end-face LC connectors.

Features and Benefits:

- Multimode connectors only one polishing paper and 2 steps
- Single-mode connectors only two polishing papers and 3 steps
- Fewer polishing steps and strokes for the pre-radiused LC connector
- Reduces the number of papers to purchase and maintain
- Reduces confusion over which paper to use at which step
- Easier logistics for ordering and maintaining stock
- One multimode consumables kit for all three connector styles, (ST, SC, LC)
- One single-mode consumables kit for all three connector styles (ST, SC, LC)
- Quality terminations with excellent performance



KIT-C-UNIV-M-100



KIT-C-UNIV-S-100

Product Number	Detailed Description	Application	Qty/Pkg	Material ID
KIT-C-UNIV-M-100	Type H paper, sheets	MM ST & SC Connectors	25	760066720
	Texwipes, packs	MM Pre-Radius LC Connectors	2	
	Syringes, packs	For terminating 100 Connectors	1	
	Dispensing Tips, packs		1	
	Music Wire, vial		1	
	Instruction Sheets	ST, SC & LC	1 each	
KIT-C-UNIV-S-100	Type H paper, sheets	SM & MM ST & SC Connectors	25	760066738
	Type E paper, sheets	SM & MM Pre-Radius LC Connectors	25	
	Texwipes, packs	For terminating 100 Connectors	2	
	Syringes, packs		1	
	Dispensing Tips, packs		1	
	Music Wire, vial		1	
	Instruction Sheets	ST, SC & LC	1 each	
EZ Adhesives	Locite 7090 Solvent-less	Primer/Bonder/Retaining Compounds		760000810
	Primer/495 Super Bonder/ 648 Retaining Compound			
KIT-C-2.50M-R-100	Consumable Kit for repairing ST & SC Connectors			700218076

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Tools & Consumables

Flat Endface LC Connector Consumable Kit



D-182977 Consumable Kit

The D-182977 Consumable Kit contains enough supplies to mount approximately 200 single-mode flat end-face LC connectors using the heat-cured epoxy method. This kit can also be used to terminate multimode flat end-face LC connectors (epoxy method).

Product Number	Detailed Description		Material ID
D-182977	SM/MM Epoxy LC Consumable Kit		700005317

Detailed Description	Kit Quantity	Replacement Quantity	Material ID
Wipes	10	250	700006166
Music Wire	5	4	700008394
Syringes	75	10	700007982
Dispensing Tips	125	125	700011141
Epoxy	1	15	700006109
Clear Spacers	10		Unable to order individually
Foam Pad (white)	10		Unable to order individually
Type J Polishing Paper (purple)	20	20	700006661
Type F Polishing Paper	5	5	700006703
Type K Polishing Paper	5	5	700006687
Type L Polishing Paper	10	10	700006679
LC Adapter Brush	6	6	700008089

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Tools & Consumables

Fiber Optic Inspection and Cleaning Kit

Cleanliness of fiber optic connections is critical to the performance of optical communication networks. The SYSTIMAX Fiber Optic Connector Cleaning and Inspection Kit is a complete inspection and cleaning solution that enables you to service SC, ST, LC and even MPO connectors.

Contamination as small as 0.001 mm can block the fiber core generating strong back reflections (Return Loss) and may affect attenuation (Insertion Loss). Mating a contaminated connector to a clean connector will result in poor performance and can permanently damage the connection. Contaminants on a connector end-face can come from many different sources, such as hand oils and salts from touching the end-face or airborne particles touching an exposed connector. Often dust caps do not provide protection from airborne dust contaminants.

Attempting to clean the connector with improper materials or procedures often leads to more debris and damage to the connector. Using the materials and procedures provided in this kit will ensure clean and safe optical connectivity.

Features and Benefits:

- Probe style microscope can inspect connectors in hand and through the bulkhead
- Includes all materials needed to clean and inspect ST, SC, LC connectors
- Capable of inspecting and cleaning MPOs with and without pins, either in hand or through the bulkhead
- Prevents debris and contamination from causing testing failures or permanently damaging your connectors
- Rugged aluminum carrying case included

Kit Contents - Consumable and Inspection Kits

- Westover probe microscope and display
- NTT-AT cleaning cassette for cleaning ST, SC, LC and MPO(f) connectors in hand
- Noyes 1.25 mm and 2.5 mm swabs for cleaning ST, SC, LC connectors through the bulkheads
- US Conec IBC cleaner for cleaning MPO(m) and MPO(f) connectors both in hand and through the bulkhead
- MicroCare Fiber Optic Cleaning Solution
- SYSTIMAX Cleaning Instructions

Kit Contents - Consumable Kit

- NTT-AT Optipop reel cleaner refill
- MPO/MTP internal bulkhead cleaner
- 1.25 mm swabs (Green label)
- 2.5 mm swabs (Blue label)
- Fiber optic cleaning solution



KIT - Clean/Inspect

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Additional Fiber Connectivity

Tools & Consumables

Product Number	Detailed Description	Material ID
KIT-Clean/Inspect	Fiber Optic Connector Clean/Inspect Kit	760053199
KIT-Cleaning	Fiber Optic Connector Cleaning and Consumables Kit	760053207

Fiber Tools

Miscellaneous Kits for Fiber Optic Connector Cable Assembly/Terminations

Detailed Description	Material ID
LC SM Tuning Tool	700008113
TOOL-102A, STII Crimp Tool	700008253
TOOL-500B INSRTN MET BX0	700008188
TOOL-F-62161 Curing	700008246

Consumable Kit Components

Replacement kit components for the Consumable Kits

Detailed Description	Replacement Quantity	Material ID
Type A Polishing Paper	100	700006737
Type D Polishing Paper	100	700006711
Type E Polishing Paper	100	760062281
Type E Polishing Paper (White), 6x6	100	760066977
Buffer Tube Reel 900 micron 210 ft (64.1 m)	5	700008360
Wire Marker Book	1	700007966
Rosin Bag	5	700002405
Wipes	250	700006166
Music Wire	4	700008394
Syringes	10	700007982
Dispensing Tips	125	700011141
Type F Polishing Paper (Yellow Round)	10	700006703
Type J Polishing Paper (Purple)	20	700006661
Type G Polishing Paper (Green)	25	760006205
Type L Polishing Paper	10	700006679
Type K Polishing Paper	5	700006687
Type H Polishing Paper (Green), 6x6	100	760066969
B Sealant 3 oz		700010911
Bottled Adhesive	1	700002181
D-182985 SM EZ Consumable Kit	1	700005309
D-182984 MM EZ Consumable Kit	1	108340829
Epoxy Kit		700006109
Bottled 'EZ' Primer	1	700004146

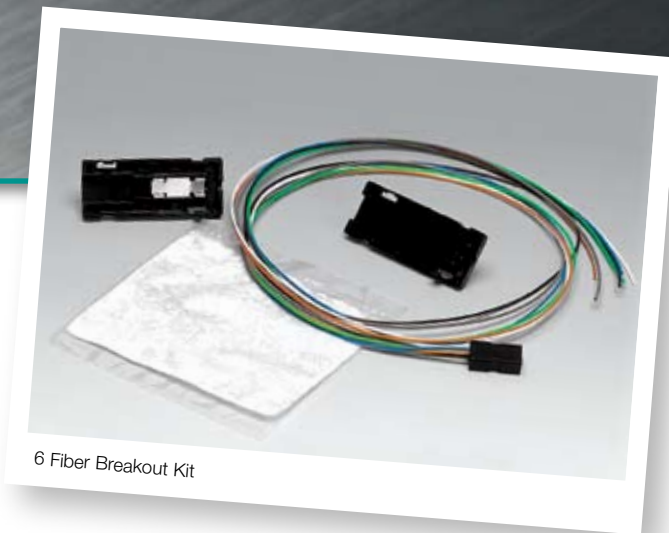
Product Number	Detailed Description	Material ID
KIT-D182037	Consumable Kit for polishing SM Flat Alumina ST Ferrules	700006091
KIT-D182038	Consumable Kit for polishing MM Flat Alumina ST Ferrules	105501415
KIT-D-182709 Parts ST CO	Consumable Kit with Adhesive	106736937
KIT-D182847 Parts	250-pc. SC Consumable Kit	700005903
KIT-D183017 FBR Optic LC	Fiber Optic Tuning Kit	700005820
KIT-ST Extender Cap Part	Extender for terminating ST Connector onto 900 um Fiber	700005978

Breakout Kits

The Breakout Kit prepares loose tube fiber optic cable quickly and reliably when premises network installations require indoor field connectorization. Available in 6 fiber and 12 fiber units, the kit transitions optical fiber from 2.5 mm and 3.0 mm buffer tubes to 900 micron protective tubing. The Breakout Kit is simple to use since no epoxy or special tools are required.

Features and Benefits:

- 6 fiber and 12 fiber units available
- 24 inch, 900 micron tubing length
- Simple, snap-together housing
- Flexible, yet rugged, 900 micron tubing for easy routing and fiber protection
- Color-coded tubing for easy fiber identification
- Allows fast, reliable breakout of loose tube cable
- Simple to assemble, no epoxy or special tools needed
- Easy fiber identification
- ISO 9001 and ISO 14001 certified manufacturer; TL 9000 registered quality management system



6 Fiber Breakout Kit

Detailed Description	Material ID
6 Fiber Breakout Kit	760018820
12 Fiber Breakout Kit	760018838

Unit Splitters

The Unit Splitter is a pitchfork-shaped apparatus used for gel-blocking and organizing fibers when prepping outside plant cable. It is the ideal device to split bundled fibers into separate groups for routing to locations for shelves and cabinets.



D-181683

Product Number	Detailed Description	Material ID
D-181781	6 to 1 Unit Splitter for Outdoor Cable Diameter of 0.41 inch	700011125
D-181683	8 to 1 Unit Splitter for Outdoor Cable Diameter of 0.41 inch	700006125
D-182806	6 to 1 Unit Splitter Fits 0.16 in (4.1 mm) and 0.20 in (5.1 mm) Core Tubes	700010960

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D-181755 PVC Buffer Tubing Consumable Kit

The PVC Buffer Tubing Kit contains buffer tubing and cable end prep materials for direct termination of connectors on outside plant cable. This kit will buffer approximately 100 outside plant fibers. Order B sealant separately.



D-181755

Detailed Description	Kit Quantity	Replacement Quantity	Material ID
210 in (64 mm) Buffer Tube (900 micron)	1 Reel	5 Reels	700008360
Syringes	5	10	700007982
Wire Marker Book	1	1	700007966
Rosin Bag	1	5	700002405
0.166 in (4.2 mm) ID Clear PVC Tubing	24 in (61 cm)		Unable to order individually
0.234 in (6 mm) ID Clear PVC Tubing	12 in (30.5 cm)		Unable to order individually
0.294 in (7.5 mm) ID Clear PVC Tubing	12 in (30.5 cm)		Unable to order individually
0.095 in (2.4 mm) ID x 0.016 in (0.4 mm) Wall White PVC Tubing	25 ft (7.6 m)		Unable to order individually
0.187 in (4.8 mm) ID Heat Shrinkable Tubing	24 in (61 cm)		Unable to order individually
D-181683 Eight Unit Splitter (Re-orderable in Unit Splitter Family)	1		700006125
D-181781 Six Unit Splitter (Re-orderable in Unit Splitter Family)	1		700011125
Instruction Sheet	1		Unable to order individually

Product Number	Detailed Description	Material ID
D-181755	PVC Buffer Tubing Kit	700006117

Fiber Types & Reference

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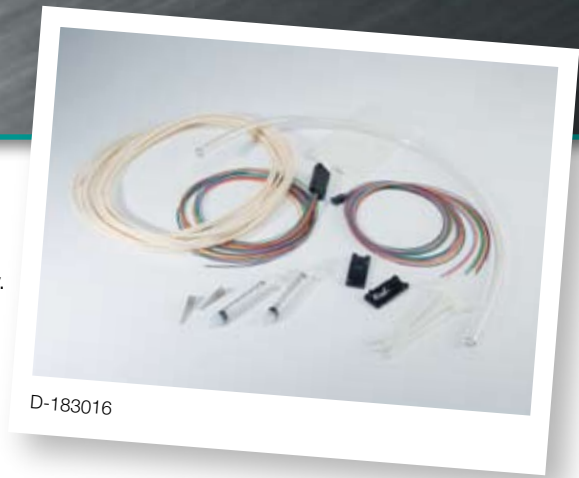
Tools & Consumables

D-183016 Splitter Kit

The Splitter Kit contains components and consumables for blocking the gel in central core tubing common in outside plant cable. It also contains components for buffering bare fibers with 900 micron tubing for termination onto fiber optic connectors. Order B sealant separately.

The D-183016 Splitter Kit contains the following components:

- Clear Tygon Tubing Qty 2
- Cable Ties Qty 10
- Syringes (3 cc) Qty 2
- Syringe Tips Qty 2
- White PVC Tubing (0.095 Diameter) 25 ft
- Splitter Kit with TALC Bag Qty 2
- D183016 Kit Installation Instructions Qty 1



Product Number	Detailed Description	Material ID
D-183016	Splitter Kit	108459488

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