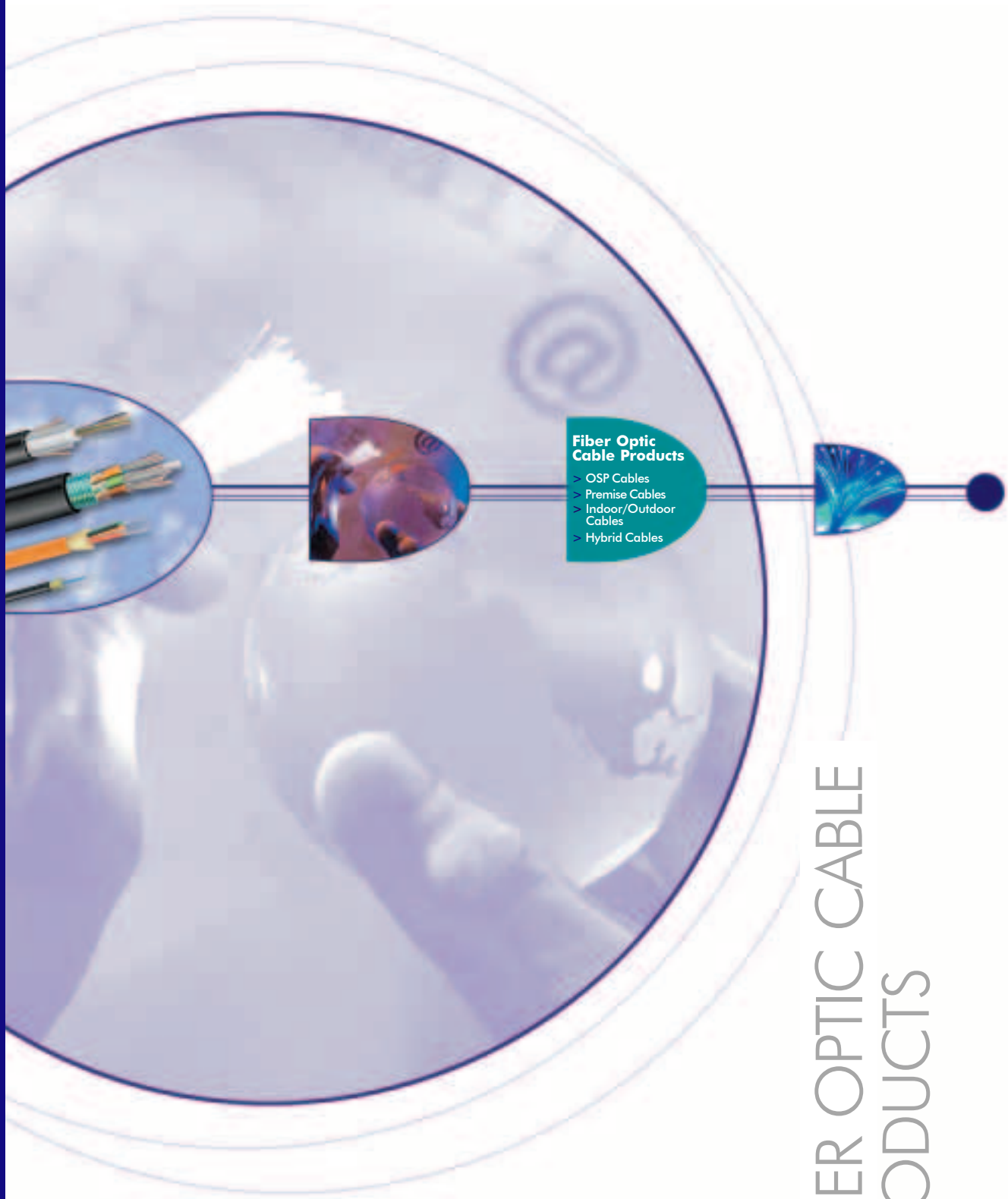
CommScope Fiber Optic Cable Products



FIBER OPTIC CABLE PRODUCTS

Fiber Optic Cable

CommScope Fiber Optic Cable Products

Proven Quality and Performance

The Cable Industry's Fiber Supplier™

Better fiber equals better fiber optic cable. CommScope provides key optical and geometrical features in its standard singlemode fiber for fusion splice compatibility with other fiber manufacturers and legacy fiber. LightScope ZWP™ singlemode optical fiber cable continues a CommScope tradition of being a leader in manufacturing innovative and performance-enhanced products for the cable industry. LightScope ZWP optical fiber cable makes available 30% more usable transmission spectrum, which can be used for return path, enhanced video services such as video on demand (VOD) or Dedicated Wavelength Services for business or other demanding applications.

Through its ownership interest in OFS™, CommScope has invested in one of the world's largest producers of optical fiber and cable. The venture, and other arrangements with OFS, provides CommScope access to a broad array of technologically advanced optical fibers including the LightScope ZWP family of products.

CommScope has developed key families of fiber optic cables specifically to be used throughout the HFC communication hierarchy as well as an offering of fiber optic components including connectors and other passive devices that are commonly required in broadband infrastructure.

Outside Plant Cables for Standard and Rugged Environments

For direct buried, underground conduit and aerial installations, CommScope offers several designs, which include a variety of loose tube cables, from all-dielectric to double armored, triple-jacketed cables. Design options include Drop Armored, a smaller, lighter weight Central Tube cable construction; Central Tube and Stranded Loose Tube cables. Any of these cables may be factory-installed in a variety of CommScope's ConQuest® premium high density polyethylene conduit including Toneable Conduit™ – a patent pending location and damage prevention solution.

Indoor/Outdoor Cables for Strength and Safety (Including Low Smoke/Zero-Halogen Types)

CommScope's design for these hybrid application cables offer construction and jacketing suitable for outside usage yet comply with UL and CSA riser (OFNR) flame standards. This design allows you to run cable through the building entrance without having to terminate and splice different cables together which results in significant savings in time and labor. Cable types include dielectric central tube designs, dielectric stranded loose tube cables and Triathlon®, a specially designed low-smoke/zero halogen distribution and cordage cable construction.

Premise Cables for Safety and Performance

CommScope's premises cables are designed to handle the unique stresses of indoor applications. Design options include riser and plenum-rated distribution and cordage cables.

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 ensure that every meter 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 an individual cable test report to each reel. You get proof-positive that the cable you purchase will perform to the level you require. Remember, a network is only as good as the cable that connects it. Specify the cables that make networks work — fiber optic cables from CommScope.

Request a FREE Broadband Applications & Construction Library

CommScope's Broadband Applications & Construction Library includes a 4-piece set of valuable reference manuals plus a DVD containing essential training videos on topics such as connectorization, expansion loop formation and fiber optic splicing. These tools teach you how to protect the integrity of your broadband plant while lowering operating/installation costs. From construction and installation practices, to performance and testing of cable–

CommScope Construction Manuals are simply a "must-have" for anyone upgrading or maintaining broadband networks. Download a PDF version at our website: http://www.commscope.com (in the literature center) or request a set by phone at 1-800-982-1708.

CommScope's Digital Broadband Resource Center™

This repository of experience, knowledge, services and tools is provided to CommScope customers to assist installers, technicians, engineers, designers and managers of broadband service providers. Tools in various media and formats include: SpanMaster® software for cable sag and tension calculations; center conductor sizing guides; attenuation slide rules; and call center spec assistance and review. Call us at 1-866-333-dBRC (3272) or e-mail dbrc@commscope.com for answers to product questions or issues related to any CommScope broadband product.

Fiber Optic Catalog Numbering Key

Steps to Building the Catalog Number for the Cable You Need!

CommScope

CommScope Catalog Number Position

CABLE STYLE (Position 1)

O .... Outdoor (Arid Core® Standard)
F ..... Flooded Stranded Loose Tube
S ..... Self-Supporting (ADSS)
M .... Messenger
P ..... Plenum
R ..... Riser
Z ..... Zero Halogen

FIBER COUNT* (Positions 2, 3, & 4)

Total Fiber Count (in increments of two)

**Substitute for "XXX" variable in catalog number.*

CONSTRUCTION (Positions 5 & 6)

Outside Plant Cables

LA ..... Stranded Loose Tube Armored
LN ..... Stranded Loose Tube Non-Armored, All-Dielectric
LD ..... Stranded Loose Tube Double Jacketed, All-Dielectric
L2 ..... Stranded Loose Tube Double Jacketed, Single Armored
L3 ..... Stranded Loose Tube Triple Jacketed, Double Armored
DA ..... Drop Armored
CS ..... Central Tube Self-Support, Armored
CA ..... Central Tube Armored
CN ..... Central Tube Non-Armored, All-Dielectric
CP ..... Central Tube Pavement

Indoor & Indoor/Outdoor Cables

DS ..... Distribution
DU ..... Duplex
SP ..... Simplex
BO .... Breakout
IC ..... Interconnect
ZC .... Zipcord

FiberGuard™

Use the first character of the construction code above plus one of the following:

W ..... Steel Armor, No Jacket
X ..... Steel Armor with Jacket
Y ..... Aluminum Armor, No Jacket
Z ..... Aluminum Armor with Jacket

FIBER TYPE (Positions 7 & 8)

Singlemode

8W ..... LightScope ZWP™ Dispersion-Unshifted, Matched-Clad Singlemode Fiber
8T ..... LightScope NZD™ Non-Zero Dispersion-Shifted Singlemode Fiber

Multimode

6F ..... 62.5µm, FDDI Grade Multimode Fiber
5H ..... 50µm, Multimode Fiber
5M ..... LaserCore® 150, 50µm, Multimode Fiber
5L ..... LaserCore® 300, 50µm, Multimode Fiber
CM ..... Composite (Singlemode & Multimode)

**XY variable in catalog number*

CABLE MARKING (Position 9)

F ..... Jacket Sequentially Marked in Feet (standard)
M ..... Jacket Sequentially Marked in Meters
X ..... Custom Print Required

CABLE CONSTRUCTION SPECIFICS (Position 10)

- **For outdoor and indoor/outdoor loose tube cables, this value indicates the fiber content per subunit:**
  01-12 ..... Fiber Count Per Subunit
- **For indoor distribution cables, this value indicates additional information pertaining to the cable construction:**
  SD ..... Standard Construction
  HD ..... Heavy Duty Construction
- **For cordage cables, this value indicates the outside diameter**
  16 ..... 1.6mm Jacket Outer Diameter
  25 ..... 2.5mm Jacket Outer Diameter
  29 ..... 2.9mm Jacket Outer Diameter

COLOR FIELD (Positions 11 & 12)

- **For outdoor cables, this field designates the tracer/stripe requirements:**
  NS ..... No Stripe (Std)
  BL ..... Blue
  OR ..... Orange
  GR ..... Green
  WH ..... White
  YL ..... Yellow
  VI ..... Violet
- **For indoor/outdoor cables, this field designates the jacket color:**
  BK ..... Black
- **For indoor cables, this field designates jacket color:**
  OR ..... Orange - for multimode and composite cables
  YL ..... Yellow - for singlemode cables
  AQ ..... Aqua - LaserCore®

Note: Non-standard jacket colors are available. (minimum order required) Please contact your Customer Service Representative for additional information.

"ZZ" variable in catalog number

NOTES

When Positions 7 & 8 are CM (composite cables), positions 14-23 are required.

Positions 14 & 15 ..... Singlemode fiber type

Positions 16 - 18 ..... Singlemode fiber count *(aaa variable in the catalog number)*

Positions 19 & 20 ..... Multimode fiber type

Positions 21 - 23 ..... Multimode fiber count *(bbb variable in the catalog number)*

When ordering Mini-Diameter Loose Tube cables, "MD" will be required in positions 14 - 15.

When position 1 is "S" (ADSS cables), positions 14 -16 are required.

Positions 14 - 17 (17 as needed) maximum span length

**If tracking resistant cable is needed, please add "AT" to the end of the catalog number*

LightScope ZWP Type 8W Singlemode Fiber Specifications

Available in All CommScope Cable Types

Zero Water Peak: Dispersion-Unshifted, Matched-Clad Singlemode Fiber

Physical Characteristics	
Cladding Diameter	125 ± 0.7 µm
Core/Clad Offset	≤ 0.5 µm
Coating Diameter (uncolored)	245 ± 10 µm
Coating Diameter (colored)	254 ± 7 µm
Coating/Cladding Concentricity Error, max.	12 µm
Clad Non-Circularity	≤ 1%

Mechanical Characteristics	
Prooftest	100 kpsi (.69 Gpa)
Coating Strip Force	0.3 - 2.0 lbf (1.3 - 8.9 N)
Fiber Curl	≥ 4 m
Dynamic Fatigue Parameter	≥ 18 nd
Macrobend 100 turns @ 50mm mandrel	
1550 nm	0.10 dB maximum
Macrobend 1 turn @ 32mm mandrel	
1550 nm	0.10 dB maximum

Optical Characteristics, Wavelength Specific	
Attenuation, Loose Tube Cable	
1310 nm	0.35 dB/km
1385 nm	0.32 dB/km
1550 nm	0.24 dB/km
Attenuation, Tight Buffer Cable	
1310 nm	0.70 dB/km
1385 nm	0.70 dB/km
1550 nm	0.70 db/km
Mode Field Diameter	
1310 nm	9.2 ± 0.3 µm
1385 nm	9.6 ± 0.6 µm
1550 nm	10.4 ± 0.5 µm
Group Refractive Index	
1310 nm	1.466
1385 nm	1.466
1550 nm	1.467
Dispersion	
1310 nm	3.5 ps/(nm-km) from 1285 to 1330 nm
1550 nm	18 ps/(nm-km)

Optical Characteristics, General	
Point Defects	0.10 dB
Cutoff Wavelength	≤ 1260 nm
Zero Dispersion Wavelength	1300 - 1322 nm
Zero Dispersion Slope	0.092 ps/(km-nm-nm)
Polarization Mode Dispersion Link Design Value	≤ 0.1 ps/sqrt(km)

Environmental Characteristics	
Temperature Dependence -60°C to +85°C	≤ 0.05 dB
Temperature Humidity Cycling -10°C to 85°C up to 95% RH	≤ 0.05 dB
Water Immersion, 23 + 2°C	≤ 0.05 dB
Heat Aging, 85 + 2°C	≤ 0.05 dB

Specifications are subject to change without notice.

LightScope NZD™ Type 8T Singlemode Fiber Specifications

Available in CommScope Outside Plant Cable Types

Non-Zero Dispersion Shifted Singlemode Fiber

Physical Characteristics	
Cladding Diameter	125 ± 0.7 µm
Core/Clad Offset	≤ 0.5 µm
Coating Diameter (uncolored)	245 ± 5 µm
Coating Diameter (colored)	254 ± 7 µm
Coating/Cladding Concentricity Error, max.	12 µm
Clad Non-Circularity	≤ 1%

Mechanical Characteristics	
Prooftest	100 kpsi (.69 Gpa)
Coating Strip Force	0.3 - 2.0 lbf (1.3 - 8.9 N)
Fiber Curl	≥ 4 m
Dynamic Fatigue Parameter	≥ 20 nd
Macrobend 100 turns @ 75mm mandrel	
1550 and 1625 nm	0.05 dB maximum
Macrobend 1 turn @ 32mm mandrel	
1550 and 1625nm	0.50 dB maximum

Optical Characteristics, Wavelength Specific	
Attenuation, Loose Tube Cable	
1310 nm	0.45 dB/km
1550 nm	0.25 dB/km
1625 nm	0.34 dB/km
Mode Field Diameter	
1550 nm	8.4 ± 0.6 µm
1625 nm	8.9 ± 0.6 µm
Group Refractive Index	
1310 nm	1.471
1550 nm	1.470
1625 nm	1.470
Dispersion	
1310 nm	-8 ps/(nm-km) (typical)
1550 nm	2.6 to 6 ps/(nm-km) from 1530 - 1565 nm
1625 nm	4.0 to 8.9 ps/(nm-km) from 1565 - 1925 nm

Optical Characteristics, General	
Attenuation at 1385 nm	1.0 dB/km
Point Defects	0.10 dB
Cutoff Wavelength	≤ 1260 nm
Dispersion Slope	< 0.05 ps/(km-nm-nm) at 1550 nm
Polarization Mode Dispersion Link Design Value	≤ 0.1 ps/sqrt(km)

Environmental Characteristics	
Temperature Dependence -60°C to +85°C	≤ 0.05 dB
Temperature Humidity Cycling -10°C to +85°C up to 95% RH	≤ 0.05 dB
Water Immersion, 23 + 2°C	≤ 0.05 dB
Heat Aging, 85 + 2°C	≤ 0.05 dB

Specifications are subject to change without notice.

Type 6F Multimode Fiber Specifications

Available in All CommScope Cable Types

62.5 micron, FDDI Grade Multimode Fiber

Physical Characteristics	
Core Diameter	62.5 ± 2.5 μm
Cladding Diameter	125 ± 1.0 μm
Core/Clad Offset	≤ 1.5 μm
Coating Diameter (uncolored)	245 ± 10 μm
Coating Diameter (colored)	254 ± 7 μm
Coating/Cladding Concentricity Error, max.	6 μm
Clad Non-Circularity	≤ 1%

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

Optical Characteristics, Wavelength Specific	
Attenuation, Loose Tube Cable	
850 nm	3.0 dB/km
1300 nm	1.0 dB/km
Attenuation, Tight Buffer Cable	
850 nm	3.5 dB/km
1300 nm	1.5 db/km
Bandwidth, OFL (Over-Filled Launch)	
850 nm	200 MHz - km
1300 nm	500 MHz - km
Group Refractive Index	
850 nm	1.496
1300 nm	1.491
1 GB Ethernet Distance	
850 nm	300 m
1300 nm	550 m

Optical Characteristics, General	
Numerical Aperature	0.275 ± 0.015
Point Defects, max	0.15 dB
Zero Dispersion Wavelength	1320 - 1365 nm
Zero Dispersion Slope	0.097 ps/(km-nm-nm)

Environmental Characteristics	
Temperature Dependence -60°C to +85°C	≤ 0.20 dB
Temperature Humidity Cycling -10°C to 85°C up to 95% RH	≤ 0.20 dB
Water Immersion, 23 + 2°C	≤ 0.20 dB
Heat Aging, 85 + 2°C	≤ 0.20 dB

Specifications are subject to change without notice.

Type 5H Multimode Fiber Specifications

Available in All CommScope Cable Types

50 micron Multimode Fiber

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

Mechanical Characteristics	
Prooftest	100kpsi (.69 Gpa)
Coating Strip Force	0.3 - 2.0 lbf (1.3 - 8.9 N)
Fiber Curl	≥ 2 m
Dynamic Fatigue Parameter	≥ 18 nd
Macrobend 100 turns @ 75mm mandrel	
850 nm and 1300 nm	0.50 dB maximum

Optical Characteristics, Wavelength Specific	
Attenuation, Loose Tube Cable	
850 nm	3.0 dB/km
1300 nm	1.0 dB/km
Attenuation, Tight Buffer Cable	
850 nm	3.5 dB/km
1300 nm	1.5 db/km
Group Refractive Index	
850 nm	1.483
1300 nm	1.479
Bandwidth, OFL (Over-Filled Launch)	
850 nm	500 MHz-km
1300 nm	500 MHz-km
1 GB Ethernet Distance	
850 nm	600 m
1300 nm	600 m

Optical Characteristics, General	
Point Defects, max	0.15 dB
Zero Dispersion Wavelength	1297-1316 nm
Zero Dispersion Slope	0.101 ps/[km-nm-nm]
Numerical Aperature	0.200 ± 0.015

Environmental Characteristics	
Temperature Dependence -60°C to +85°C	≤ 0.10 dB
Temperature Humidity Cycling -10°C to 85°C up to 95% RH	≤ 0.10 dB
Water Immersion, 23 + 2°C	≤ 0.20 dB
Heat Aging, 85 + 2°C	≤ 0.20 dB

Specifications are subject to change without notice.

LaserCORE 150 Type 5M Multimode Fiber Specifications

Available in All CommScope Cable Types

LaserCore 150, 50 micron Multimode Fiber

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

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

Optical Characteristics, Wavelength Specific	
Attenuation, Loose Tube Cable	
850 nm	3.0 dB/km
1300 nm	1.0 dB/km
Attenuation, Tight Buffer Cable	
850 nm	3.0 dB/km
1300 nm	1.0 db/km
Bandwidth, OFL	
850 nm	700 MHz - km
1300 nm	500 MHz - km
Bandwidth, Laser	
850 nm	950 MHz - km
1300 nm	500 MHz - km
Differential Mode Delay	
850 nm	per TIA-492AAAC
1300 nm	0.88 ps/m
Group Refractive Index	
850 nm	1.483
1300 nm	1.479
1 GB Ethernet Distance	
850 nm	750 m
1300 nm	600 m
10 GB Ethernet Distance*	
850 nm	150 m

Optical Characteristics, General	
Numerical Aperature	0.200 ± 0.015
Point Defects, max	0.15 dB
Zero Dispersion Wavelength	1297 - 1316 nm
Zero Dispersion Slope	0.101 ps/(km-nm-nm)

Environmental Characteristics	
Temperature Dependence -60°C to +85°C	0.10 dB
Temperature Humidity Cycling -10°C to 85°C up to 95% RH	0.10 dB
Water Immersion, 23 + 2°C	0.20 dB
Heat Aging, 85 + 2°C	0.20 dB

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

Specifications are subject to change without notice.

LaserCore 300, 50 micron Multimode Fiber

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

Mechanical Characteristics	
Prooftest	100 kpsi (.69 Gpa)
Coating Strip Force	0.3 - 2.0 lbf (1.3 - 8.9 N)
Fiber Curl	> 2 m
Dynamic Fatigue Parameter	> 18 nd
Macrobend 100 turns @ 75mm mandrel	
850 nm and 1300 nm	0.50 dB maximum

Optical Characteristics, Wavelength Specific	
Attenuation, Loose Tube Cable	
850 nm	3.0 dB/km
1300 nm	1.0 dB/km
Attenuation, Tight Buffer Cable	
850 nm	3.0 dB/km
1300 nm	1.0 db/km
Bandwidth, OFL (Over-Filled Launch)	
850 nm	1500 MHz - km
1300 nm	500 MHz - km
Bandwidth, Laser	
850 nm	2000 MHz - km
1300 nm	500 MHz - km
Differential Mode Delay	
850 nm	per TIA-492AAAC
1300 nm	0.88 ps/m
Group Refractive Index	
850 nm	1.483
1300 nm	1.479
1 GB Ethernet Distance	
850 nm	970 m
1300 nm	600 m
10 GB Ethernet Distance*	
850 nm	300 m

Optical Characteristics, General	
Numerical Aperature	0.200 + 0.015
Point Defects, max	0.15 dB
Zero Dispersion Wavelength	1297 - 1316 nm
Zero Dispersion Slope	0.101 ps/(km-nm-nm)

Environmental Characteristics	
Temperature Dependence -60°C to +85°C	< 0.10 dB
Temperature Humidity Cycling -10°C to 85°C up to 95% RH	< 0.10 dB
Water Immersion, 23 + 2°C	< 0.20 dB
Heat Aging, 85 + 2°C	< 0.20 dB

**Compliant with emerging IEEE 802.3ae standards for 10 GB Ethernet transmission at the 850 nm window.*
Specifications are subject to change without notice.

CommScope Outside Plant Cables

Robust Dielectric and Armored Constructions

All CommScope Outside Plant (OSP) cables are designed and manufactured to provide outstanding mechanical and optical performance. This cable family uses a loose tube construction to provide multiple levels of protection for the fiber strands. We manufacture all loose tube cables with appropriate Excess Fiber Length (EFL) to ensure, that when properly installed, the fiber strands will remain strain-free, which is essential to good optical performance and longevity. Our heavy-duty products are engineered to withstand the rigors of environmental extremes.

There are many cable choices when considering applications that require environmental protection and provide for network diversity. CommScope cable surpasses requirements in the aerial, underground and conduit applications. We offer self-support cable for aerial environments and cable-in-conduit or armored cables for extra protection in burial applications.

CommScope manufactures cables that are lightweight, flexible and especially suited for aerial cable installations. Our loose tube cables are available in armored and all-dielectric versions.

OSP Fiber Optic Cable Design Options Include:

- Drop Armored - a small, lightweight Central Tube armored cable designed for use when space is at a minimum; features a robust 3mm central tube and in fiber counts up to 12
- Central Tube - armored and dielectric construction for point-to-point installations in counts up to 96 arranged in easy-to-handle color-coded subunits of 12 fiber each
- Stranded Loose Tube - for direct buried, underground conduit and aerial installations; design variations range from all-dielectric to armored constructions with up to 288 fibers

Arid-Core® Moisture Barrier

CommScope defeats moisture with a unique multi-level approach. In addition to tough outer jacketing and gel filling within the buffer tube, we employ Arid-Core, a super-absorbent polymer technology. Arid-Core is applied between the jacket and the buffer tubes in stranded loose tube cables, and coats the central tubes of drop armored and central tube cables. When moisture meets Arid-Core, the polymer swells to prevent moisture migration - it acts as a mechanical block to prevent further water penetration.

Custom Hybrids

Broadband operators are increasingly requesting CommScope hybrid designs as a migration path to fiber to the home (FTTH) or fiber to the anything (FTTx). Unique needs in these applications often require optical, RF and power which are best met by a blend of CommScope cabling strengths and products. Low fiber counts combined with coax or twisted pair components yield flexibility and options for future growth in a single cost-effective cable run. When you can't find a cable that fits your application, ask the CommScope product management team to support your unique application. Together, we can combine available options to allow flexibility in creating the ultimate environment for advanced services.

CommScope OSP fiber optic cables are designed to meet or exceed the requirements of Telcordia, EIA/TIA, REA/RUS, IEC and RUS industry standards.

Outside Plant Arid-Core® Stranded Loose Tube Cable
Armored

Jacket/Armor Combinations for Buried/Underground/Aerial Applications

- Corrugated steel tape armor is strong yet flexible providing additional crush and rodent protection
- Arid-Core water blocking technology helps protect fibers from moisture and reduces termination effort
- Standard color-coding on fibers and buffer tubes helps ease installation
- All buffer tubes are constructed to a nominal OD of 3mm reducing the number of tools required in the field
- Flexible buffer tubes improve kink-resistance, reduce bend sensitivity and facilitates route management in closures
- Medium density polyethylene jacket is rugged, durable and easy to strip
- Rural Utilities Service (RUS) listed

Product Type/ Fiber Count	Catalog Number	Subunits	Outer Diameter inch/mm	Minimum Bend Radius Loaded inch/cm	Minimum Bend Radius Unloaded inch/cm	Maximum Tensile Load Short Term lbs/newtons	Maximum Tensile Load Long Term lbs/newtons	Weight lbs/ kft	Weight kg/ km
Single Jacket/ Single Armor 2 - 60 Fibers	O-**XXX**-LA-**XY**-F12NS	5	.53/13.4	10.5/26.8	5.3/13.4	607/2700	180/800	120	179
62 - 72 Fibers 	O-**XXX**-LA-**XY**-F12NS	6	.56/14.3	11.2/28.6	5.6/14.3	607/2700	180/800	133	199
74 - 96 Fibers	O-**XXX**-LA-**XY**-F12NS	8	.64/16.4	12.9/32.8	6.4/16.4	607/2700	180/800	166	247
98 - 120 Fibers	O-**XXX**-LA-**XY**-F12NS	10	.72/18.4	14.4/36.8	7.2/18.4	607/2700	180/800	200	299
122 - 144 Fibers	O-**XXX**-LA-**XY**-F12NS	12	.80/20.5	16.1/41.0	8.0/20.5	607/2700	180/800	237	353
146 - 216 Fibers	O-**XXX**-LA-**XY**-F12NS	18	.80/20.5	16.1/41.0	8.0/20.5	607/2700	180/800	245	365
218 - 288 Fibers	O-**XXX**-LA-**XY**-F12NS	24	.92/23.5	18.4/47.0	9.2/23.5	607/2700	180/800	318	474
Singlemode/Multimode Composite (4-288 Fibers)	O-**XXX**-LA-**CM**-F12NS/**AAaaa/BBbbb**	Refer to above specifications.							

Variables in the Catalog Number:

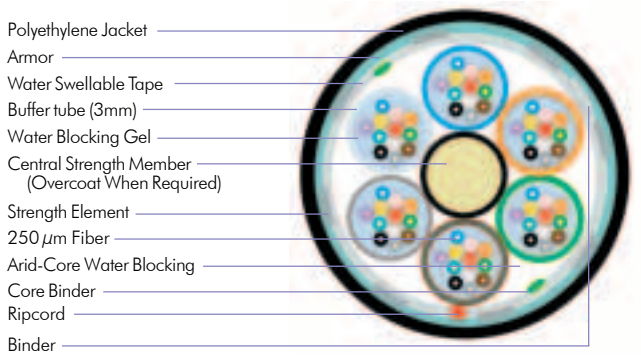
XXX = Total Fiber Count
XY = Fiber Grade

8W LightScope ZWP™ Dispersion-Unshifted, Matched-Clad Singlemode Fiber
8T LightScope NZD™ Non-Zero Dispersion-Shifted Singlemode Fiber
5L LaserCore® 300, 50µm, Multimode Fiber
5H 50µm, Multimode Fiber
5M LaserCore® 150, 50µm, Multimode Fiber
6F 62.5µm, FDDI Grade Multimode Fiber

For Composites Only:
aaa is replaced with singlemode fiber count
AA is replaced with singlemode type
bbb is replaced by multimode fiber count
BB is replaced by multimode type

Buffer Tubes/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua
Buffer Tubes 13-18 repeat color sequence with tracer stripe

Arid-Core Stranded Loose Tube Armored Cable
(72 Fiber Version Shown)



Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40 to 70°C	FOTP-3
Installation Temperature	-30 to 60°C	N/A
Storage Temperature	-40 to 75°C	N/A
Crush Resistance	44 N/mm	FOTP-41
Impact Resistance	Exceeds	FOTP-25
Flexing	Exceeds	FOTP-104
Twist/Bend	Exceeds	FOTP-85

CommScope Outside Plant Fiber Optic cables are qualified to the requirements of Telcordia GR-20-CORE, Issue 2.

Specifications are subject to change without notice.

Outside Plant Arid-Core® Stranded Loose Tube Cable

Non-Armored, All-Dielectric

For Buried/Underground/Aerial Applications

- Arid-Core water blocking technology helps protect fibers from moisture and reduces termination effort
- Standard color-coding on fibers and buffer tubes helps ease installation
- All buffer tubes are constructed to a nominal OD of 3mm reducing the number of tools required in the field
- Flexible buffer tubes improve kink-resistance, reduce bend sensitivity and facilitates route management in closures
- Medium Density Polyethylene jacket is rugged, durable and easy to strip
- Rural Utilities Service (RUS) listed

Product Type/ Fiber Count	Catalog Number	Subunits	Outer Diameter inch/mm	Minimum Bend Radius Loaded inch/cm	Minimum Bend Radius Unloaded inch/cm	Maximum Tensile Load Short Term lbs/newtons	Maximum Tensile Load Long Term lbs/newtons	Weight lbs/kft	Weight kg/km
Single Jacket/ 2 - 60 Fibers	O-**XXX**-LN-**XY**-F12NS	5	.46/11.7	9.2/23.4	4.6/11.7	607/2700	180/800	63	94
62 - 72 Fibers 	O-**XXX**-LN-**XY**-F12NS	6	.50/12.7	10.0/25.4	5.0.12.7	607/2700	180/800	72	107
74 - 96 Fibers	O-**XXX**-LN-**XY**-F12NS	8	.58/14.7	11.5/29.4	5.8/14.7	607/2700	180/800	95	141
98 - 120 Fibers	O-**XXX**-LN-**XY**-F12NS	10	.66/16.8	13.2/33.6	6.6/16.8	607/2700	180/800	118	176
122 - 144 Fibers	O-**XXX**-LN-**XY**-F12NS	12	.74/18.9	14.8/37.8	7.4/18.9	607/2700	180/800	145	216
146 - 216 Fibers	O-**XXX**-LN-**XY**-F12NS	18	.74/18.9	14.8/37.8	7.4/18.9	607/2700	180/800	153	228
218 - 288 Fibers	O-**XXX**-LN-**XY**-F12NS	24	.86/21.9	17.2/43.8	8.6/21.9	607/2700	180/800	211	315
Singlemode/Multimode Composite (4-288 Fibers)	O-**XXX**-LN-**CM**-F12NS/**AAaaa/BBbbb**	Refer to above specifications.							

Variables in the Catalog Number:

XXX = Total Fiber Count

XY = Fiber Grade

8W LightScope ZWP™ Dispersion-Unshifted, Matched-Clad Singlemode Fiber
8T LightScope NZD™ Non-Zero Dispersion-Shifted Singlemode Fiber

5L LaserCore® 300, 50µm, Multimode Fiber
5H 50µm, Multimode Fiber
5M LaserCore® 150, 50µm, Multimode Fiber
6F 62.5µm, FDDI Grade Multimode Fiber

For Composites Only:

aaa is replaced with singlemode fiber count
AA is replaced with singlemode type

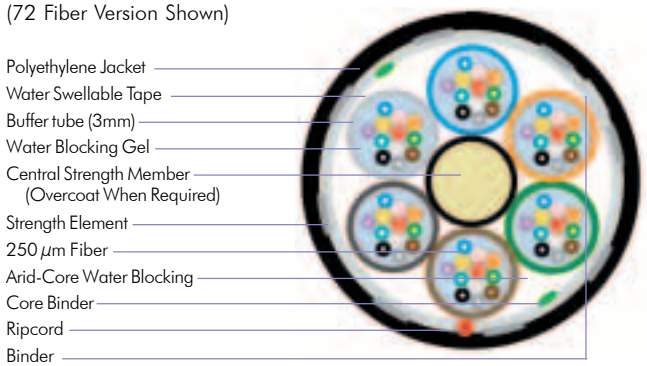
bbb is replaced by multimode fiber count
BB is replaced by multimode type

Buffer Tubes/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

Buffer Tubes 13-18 repeat color sequence with tracer stripe

Arid-Core Stranded Loose Tube Non-Armored, All-Dielectric Cable

(72 Fiber Version Shown)



Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40 to 70°C	FOTP-3
Installation Temperature	-30 to 60°C	N/A
Storage Temperature	-40 to 75°C	N/A
Crush Resistance	44 N/mm	FOTP-41
Impact Resistance	Exceeds	FOTP-25
Flexing	Exceeds	FOTP-104
Twist/Bend	Exceeds	FOTP-85

CommScope Outside Plant Fiber Optic cables are qualified to the requirements of Telcordia GR-20-CORE, Issue 2.

Specifications are subject to change without notice.

Outside Plant Stranded Loose Tube Cable

High Density Loose Tube

For Buried/Underground/Aerial applications

- Dual-layer stranded core for ease of access
- Dry water-blocking technology for a more craft-friendly, jelly-free cable core
- ROL stranding and ripcords for fast mid-span entry

Product Type/ Fiber Count	Catalog Number	Outer Diameter inch/mm	Minimum Bend Radius Loaded inch/cm	Minimum Bend Radius Unloaded inch/cm	Crush Resistance N/mm	Maximum Tensile Strength lbs/Newtons	Weight lbs/kft	Weight kg/km
All-Dielectric 300-432 Fibers 	O-**XXX**-LN-**XY**-F24NS	0.83/21.2	12.45/31.8	8.3/21.2	22	1000/4450	226	336
Armored 300-432 Fibers	O-**XXX**-LA-**XY**-F24NS	0.91/23.1	13.65/34.6	9.1/23.1	22	1000/4450	226	336
Double Jacketed/ Single Armored 300-432 Fibers	O-**XXX**-L2-**XY**-F24NS	0.99/25.1	14.85/37.65	9.9/25.1	22	1000/4450	365	544

**Depending on sag and loading conditions, fiber counts and clearance requirements*

Variables in the Catalog Number:

XXX = Total Fiber Count

XY = Fiber Grade

8W LightScope ZWP™ Dispersion-Unshifted, Matched-Clad Singlemode Fiber
8T LightScope NZD™ Non-Zero Dispersion-Shifted Singlemode Fiber
5L LaserCore® 300, 50µm, Multimode Fiber
5H 50µm, Multimode Fiber
5M LaserCore® 150, 50µm, Multimode Fiber
6F 62.5µm, FDDI Grade Multimode Fiber

For Composites Only:

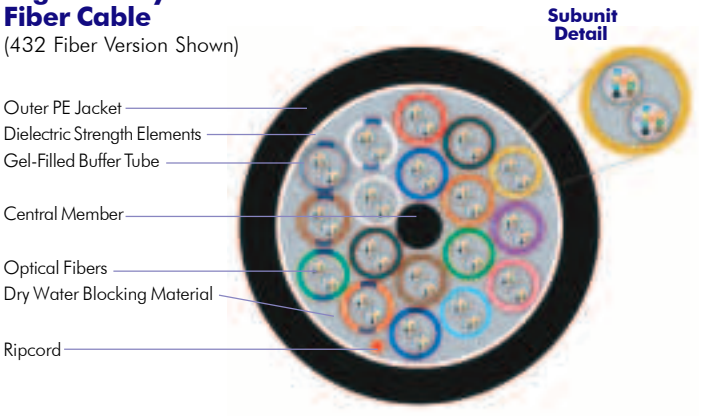
aaa is replaced with singlemode fiber count
AA is replaced with singlemode type
bbb is replaced by multimode fiber count
BB is replaced by multimode type

Buffer Tubes/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

Buffer Tubes 13-18 repeat color sequence with tracer stripe

High Density Loose Tube Fiber Cable

(432 Fiber Version Shown)



Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40 to 70°C	FOTP-3
Installation Temperature	-30 to 60°C	N/A
Storage Temperature	-40 to 75°C	N/A
Impact Resistance	Exceeds	FOTP-25
Flexing	Exceeds	FOTP-104
Twist/Bend	Exceeds	FOTP-85

CommScope Outside Plant Fiber Optic cables are qualified to the requirements of Telcordia GR-20-CORE, Issue 2.

Specifications are subject to change without notice.

Outside Plant Mini-Diameter Loose Tube Cable

Non-Armored, All-Dielectric

For Buried/Underground/Aerial Applications

- Optimized for air-blown, microduct installations
- Lower deployment costs with fast and easy installation
- Reduced diameter and high fiber density ratio maximize capacity in limited spaces
- Deferred build costs with fiber deployed only as needed
- Dry water-blocking technology for quicker, cleaner cable preparation for jointing

Product Type/ Fiber Count	Catalog Number	Subunits	Outer Diameter inch/mm	Minimum Bend Radius Loaded inch/cm	Minimum Bend Radius Unloaded inch/cm	Maximum Tensile Load Short Term lbs/newtons	Maximum Tensile Load Long Term lbs/newtons	Weight lbs/ kft	Weight kg/ km
Single Jacket 2 - 72 Fibers 	O-**XXX**-LN-**XY**-F12NS/MD	6	.30/7.5	12/300	6.0/15.0	300/1335	90/400	110	50

Variables in the Catalog Number:

XXX = Total Fiber Count

XY = Fiber Grade

8W LightScope ZWP™ Dispersion-Unshifted, Matched-Clad Singlemode Fiber
8T LightScope NZD™ Non-Zero Dispersion-Shifted Singlemode Fiber
5L LaserCore® 300, 50µm, Multimode Fiber
5H 50µm, Multimode Fiber
5M LaserCore® 150, 50µm, Multimode Fiber
6F 62.5µm, FDDI Grade Multimode Fiber

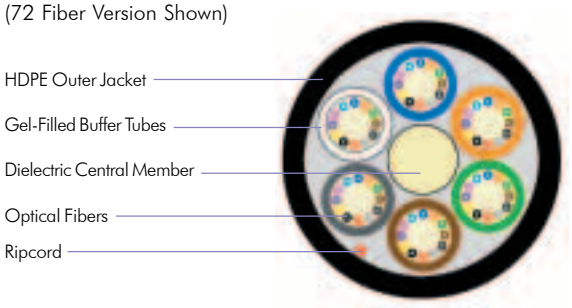
For Composites Only:

aaa is replaced with singlemode fiber count
AA is replaced with singlemode type
bbb is replaced by multimode fiber count
BB is replaced by multimode type

Buffer Tubes/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

Outside Plant Mini-Diameter Loose Tube Non-Armored, All-Dielectric Cable

(72 Fiber Version Shown)



Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40 to 70°C	FOTP-3
Installation Temperature	-15 to 60°C	N/A
Storage Temperature	-40 to 70°C	N/A
Crush Resistance	44 N/mm	FOTP-41
Impact Resistance	Exceeds	FOTP-25
Flexing	Exceeds	FOTP-104
Twist/Bend	Exceeds	FOTP-85

CommScope Outside Plant Fiber Optic cables are qualified to the requirements of Telcordia GR-20-CORE, Issue 2.

Specifications are subject to change without notice.

Outside Plant Drop Cable
Armored Design

For Buried/Underground/Aerial Applications

- Arid-Core® water blocking technology helps protect fibers from moisture and reduces termination effort
- Small, lightweight cable allowing for increased ease of installation, routing and termination
- Cost effective, low fiber count cable for outside plant applications
- An outstanding choice when space is at a premium
- Medium Density Polyethylene jacket is rugged, durable and easy to strip

Product Type/ Fiber Count	Catalog Number	Subunits	Outer Diameter inch/mm	Minimum Bend Radius Loaded inch/cm	Minimum Bend Radius Unloaded inch/cm	Maximum Tensile Load Short Term lbs/newtons	Maximum Tensile Load Long Term lbs/newtons	Weight lbs/kft	Weight kg/km
Armored 2 - 12 Fibers 	O-**XXX**-DA-**XY**-F12NS	1	0.31/7.9	12.4/31.6	6.2/15.8	300/1335	90/400	46	69
All-Dielectric 2-12 Fibers	**Available in 2003**								
Singlemode/Multimode Composite (4-12 Fibers)	O-**XXX**-DA-CM-F12NS/**AAaaa/BBbbb**	Refer to above specifications.							

Variables in the Catalog Number:

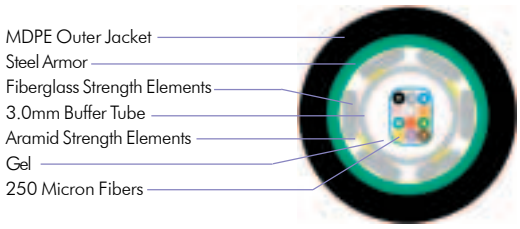
XXX = Total Fiber Count
XY = Fiber Grade

8W LightScope ZWP™ Dispersion-Unshifted, Matched-Clad Singlemode Fiber
8T LightScope NZD™ Non-Zero Dispersion-Shifted Singlemode Fiber
5L LaserCore® 300, 50µm, Multimode Fiber
5H 50µm, Multimode Fiber
5M LaserCore® 150, 50µm, Multimode Fiber
6F 62.5µm, FDDI Grade Multimode Fiber

For Composites Only:
aaa is replaced with singlemode fiber count
AA is replaced with singlemode type
bbb is replaced by multimode fiber count
BB is replaced by multimode type

Identification Threads/Fiber 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

Drop Armored Cable
(12 fiber version shown)



Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40 to 70°C	FOTP-3
Installation Temperature	-30 to 60°C	N/A
Storage Temperature	-40 to 70°C	N/A
Crush Resistance	44 N/mm	FOTP-41
Impact Resistance	Exceeds	FOTP-25
Flexing	Exceeds	FOTP-104
Twist/Bend	Exceeds	FOTP-85

CommScope Outside Plant Fiber Optic Drop cables are qualified to the ANSI/ICEA 717 Standard for Optic Fiber Drop

Specifications are subject to change without notice.

Outside Plant Central Tube Cable

Armored and All-Dielectric Designs

For Buried/Underground/Aerial Applications

- Robust constructions offer excellent protection of fibers
- Provides easy access to the fibers in future mid-span entries
- Arid-Core® water blocking technology helps protect fibers from moisture and reduces termination effort
- Compatible with standard industry hardware and procedures

Product Type/ Fiber Count	Catalog Number	Subunits	Outer Diameter inch/mm	Minimum Bend Radius Loaded inch/cm	Minimum Bend Radius Unloaded inch/cm	Maximum Tensile Load Short Term lbs/newtons	Maximum Tensile Load Long Term lbs/newtons	Weight lbs/kft	Weight kg/km
Armored 2-24 Fibers, 4mm Tube	O-**XXX**-CA-**XY**-F12NS	2	.40/10.3	8.1/20.6	4.0/10.3	607/2700	180/800	91	135
26-48 Fibers, 6mm Tube 	O-**XXX**-CA-**XY**-F12NS	4	.48/12.2	9.6/24.4	4.8/12.2	607/2700	180/800	119	177
50 - 96 Fibers, 8mm Tube	O-**XXX**-CA-**XY**-F12NS	8	.58/14.8	11.6/29.6	5.8/14.8	607/2700	180/800	150	224
All-Dielectric 2-24 Fibers, 4mm Tube	O-**XXX**-CN-**XY**-F12NS	2	.38/9.7	7.6/19.4	3.8/9.7	607/2700	180/800	60	89
26-48 Fibers, 6mm Tube 	O-**XXX**-CN-**XY**-F12NS	4	.49/12.4	9.7/24.8	4.9/12.4	607/2700	180/800	103	154
50-96 Fibers, 8mm Tube	O-**XXX**-CN-**XY**-F12NS	8	.57/14.4	11.3/28.8	5.7/14.4	607/2700	180/800	130	194
Singlemode/Multimode Composite (4-96 Fibers)	O-**XXX**-CA-CM-F12NS/**AAAaa/BBbbb** O-**XXX**-CN-CM-F12NS/**AAaaa/BBbbb**	Refer to above specifications. (Tube size will vary depending on fiber count/configuration.)							

Variables in the Catalog Number:

XXX = **Total Fiber Count**

XY = **Fiber Grade**

8W LightScope ZWP™ Dispersion-Unshifted, Matched-Clad Singlemode Fiber
8T LightScope NZD™ Non-Zero Dispersion-Shifted Singlemode Fiber

5L LaserCore® 300, 50µm, Multimode Fiber
5H 50µm, Multimode Fiber
5M LaserCore® 150, 50µm, Multimode Fiber
6F 62.5µm, FDDI Grade Multimode Fiber

For Composites Only:

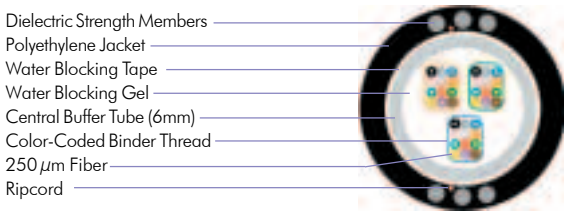
aaa is replaced with singlemode fiber count
AA is replaced with singlemode type

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

Identification Threads/Fiber Colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

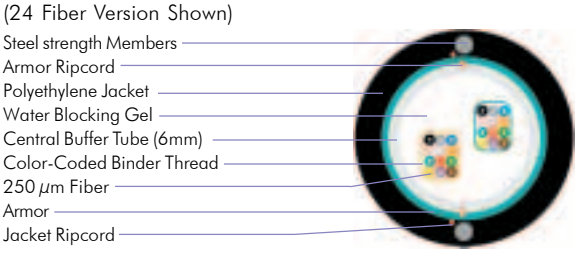
Central Tube Non-Armored All-Dielectric Cable

(36 Fiber All-Dielectric Version Shown)



Central Tube Armored Cable

(24 Fiber Version Shown)



Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40 to 70°C	FOTP-3
Installation Temperature	-30 to 60°C	N/A
Storage Temperature	-40 to 75°C	N/A
Crush Resistance	44 N/mm	FOTP-41
Impact Resistance	Exceeds	FOTP-25
Flexing	Exceeds	FOTP-104
Twist/Bend	Exceeds	FOTP-85

CommScope Outside Plant Fiber Optic cables are qualified to the requirements of Telcordia GR-20-CORE, Issue 2.

Specifications are subject to change without notice.

Outside Plant Central Tube Cable

Armored, Self-Supporting Design

For Aerial Applications

- Robust constructions offer excellent protection of fibers
- Provides easy access to the fibers in future mid-span entries
- Arid-Core® water blocking technology helps protect fibers from moisture and reduces termination effort
- Compatible with standard industry hardware and procedures

Product Type/ Fiber Count	Catalog Number	Subunits	Outer Diameter inch/mm	Minimum Bend Radius Loaded inch/cm	Minimum Bend Radius Unloaded inch/cm	Maximum Tensile Load Short Term lbs/newtons	Maximum Tensile Load Long Term lbs/newtons	Weight lbs/ kft	Weight kg/ km
Armored, Self-Supporting 2 - 24 Fibers  .085 support rods	O-**XXX**-CS-**XY**-F12NS	1	Major Axis .44/11.22 Minor Axis .37/9.3	7.3/18.6	3.7/9.3	1000/4450	500/2200	93	138

Variables in the Catalog Number:

XXX = Total Fiber Count

XY = Fiber Grade

- **8W** LightScope ZWP™ Dispersion-Unshifted, Matched-Clad Singlemode Fiber
- **8T** LightScope NZD™ Non-Zero Dispersion-Shifted Singlemode Fiber
- **5L** LaserCore® 300, 50µm, Multimode Fiber
- **5H** 50µm, Multimode Fiber
- **5M** LaserCore® 150, 50µm, Multimode Fiber
- **6F** 62.5µm, FDDI Grade Multimode Fiber

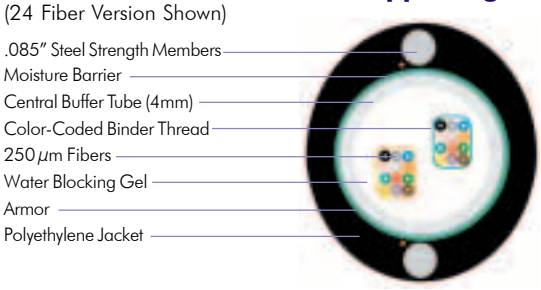
For Composites Only:

- **aaa** is replaced with singlemode fiber count
- **AA** is replaced with singlemode type
- **bbb** is replaced by multimode fiber count
- **BB** is replaced by multimode type

Identification Threads/Fiber Colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

Central Tube Armored Self-Supporting Cable

(24 Fiber Version Shown)



Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40 to 70°C	FOTP-3
Installation Temperature	-30 to 60°C	N/A
Storage Temperature	-40 to 75°C	N/A
Crush Resistance	44 N/mm	FOTP-41
Impact Resistance	Exceeds	FOTP-25
Flexing	Exceeds	FOTP-104
Twist/Bend	Exceeds	FOTP-85

CommScope Outside Plant Fiber Optic cables are qualified to the requirements of Telcordia GR-20-CORE, Issue 2.

Specifications are subject to change without notice.

Outside Plant Pavement Cable

Central Tube Design with a Copper Sheath

For Buried Applications

- Smooth wall, welded copper armor
- Arid Core® water-blocking technology helps protect fibers from moisture and reduces termination effort
- Good tensile performance (100 lbs.), compatible with standard micro-trenching techniques
- Provides excellent crush resistance

Product Type/ Fiber Count	Catalog Number	Bundles	Outer Diameter inch/mm	Minimum Bend Radius Loaded inch/cm	Minimum Bend Radius Unloaded inch/cm	Maximum Tensile Load Short Term lbs/newtons	Maximum Tensile Load Long Term lbs/newtons	Weight lbs/ kft	Weight kg/ km
Pavement Cable 2 - 72 Fibers 	O-**XXX**-CP-**XY**-F12NS	6	0.34/8.79	13.8/35.2	6.9/17.6	100/445	30/133	80	119.4

Variables in the Catalog Number:

XXX = **Total Fiber Count**
XY = **Fiber Grade**

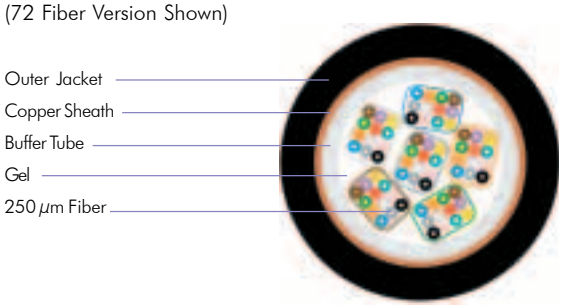
8W LightScope ZWP™ Dispersion-Unshifted, Matched-Clad Singlemode Fiber
8T LightScope NZD™ Non-Zero Dispersion-Shifted Singlemode Fiber
5L LaserCore® 300, 50µm, Multimode Fiber
5H 50µm, Multimode Fiber
5M LaserCore® 150, 50µm, Multimode Fiber
6F 62.5µm, FDDI Grade Multimode Fiber

For Composites Only:
aaa is replaced with singlemode fiber count
AA is replaced with singlemode type
bbb is replaced by multimode fiber count
BB is replaced by multimode type

Identification Threads/Fiber 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

Outside Plant Pavement Cable

(72 Fiber Version Shown)



Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40 to 70°C	FOTP-3
Installation Temperature	-30 to 60°C	N/A
Storage Temperature	-40 to 70°C	N/A
Crush Resistance	44 N/mm	FOTP-41
Impact Resistance	Exceeds	FOTP-25
Flexing	Exceeds	FOTP-104
Twist/Bend	Exceeds	FOTP-85

CommScope Outside Plant Fiber Optic cables are qualified to the requirements of Telcordia GR-20-CORE, Issue 2.

Specifications are subject to change without notice.

ADSS FTTH Loose Tube Cable

All-Dielectric, Self-Supporting (ADSS) Aerial Design

For Conduit and Conduit-to-Lashed Aerial, Aerial Self-Supporting, Fiber to the Home, Ideal for Spans Up to 300' (91m) Under NESC Medium Loading

- Small nominal diameter (9.01mm nominal)
- Light weight cable for ease of handling and installation
- All-dielectric construction with a maximum of four fibers per tube
- Single medium-density polyethylene (MDPE) jacket allows for fast, convenient cable preparation
- Outstanding, cost-effective alternative for short spans
- 600 lb. pulling tension for conduit installations

Product Type/ Fiber Count	Catalog Number	Fibers Per Tube	Outer Diameter inch/mm	Minimum Bend Radius Loaded inch/cm	Minimum Bend Radius Unloaded inch/cm	Installation Loading lbs/newtons	Weight lbs/kft	Weight kg/km
Single Jacket 2-20 Fibers 	S-**XXX**-LN-**XY**-F04NS/**ZZZ**	4	0.355/9.01	5.3/13.5	3.5/9.0	Variable Zero fiber strain at full in-service load	38	56.25

Variables in the Catalog Number:

XXX = Total Fiber Count
XY = Fiber Grade

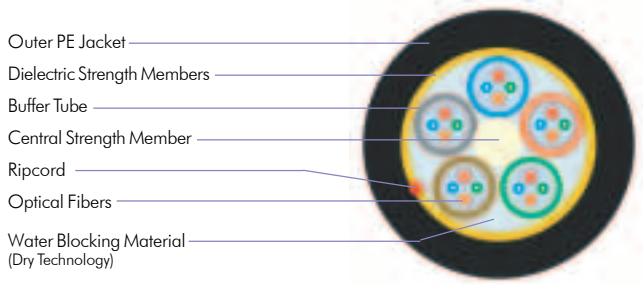
8W LightScope ZWP™ Dispersion-Unshifted, Matched-Clad Singlemode Fiber
8T LightScope NZD™ Non-Zero Dispersion-Shifted Singlemode Fiber
5L LaserCore® 300, 50µm, Multimode Fiber
5H 50µm, Multimode Fiber
5M LaserCore® 150, 50µm, Multimode Fiber
6F 62.5µm, FDDI Grade Multimode Fiber

For Composites Only:
aaa is replaced with singlemode fiber count
AA is replaced with singlemode type
bbb is replaced by multimode fiber count
BB is replaced by multimode type

Buffer Tubes/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

ADSS Double Jacket Loose Tube All-Dielectric Cable

(20 Fiber Version Shown)



Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40 to 70°C	FOTP-3
Installation Temperature	-30 to 60°C	N/A
Storage Temperature	-40 to 75°C	N/A
Crush Resistance	22 N/mm	FOTP-41
Impact Resistance	Exceeds	FOTP-25
Flexing	Exceeds	FOTP-104
Twist/Bend	Exceeds	FOTP-85

CommScope Outside Plant Fiber Optic cables are qualified to the requirements of Telcordia GR-20-CORE, Issue 2.

NESC Loading Conditions

Installation Sag	Light	Medium	Heavy
1.0%	421ft (128.3m)	271ft (82.6m)	163ft (49.6m)
1.5%	475ft (144.7m)	294ft (89.7m)	173ft (52.6m)
2.0%	516ft (157.4m)	314ft (95.6m)	182 ft (55.4m)

Specifications are subject to change without notice.

ADSS Short Span Loose Tube Cable

All-Dielectric, Self-Supporting (ADSS) Aerial Design

For Aerial Long Haul and Metro Applications

- Small cable diameter and bend radius for lightweight and ease of handling and installation
- Designed for zero fiber strain at full in-service tensile load
- Designed for short spans (up to 760 feet/231 meters)*
- Single medium-density polyethylene (MDPE) jacket for fast convenient cable preparation
- Fully qualified in accordance with Telcordia Technologies, EIA/TIA, IEEE and RUS Standards

Product Type/ Fiber Count	Catalog Number	Fibers Per Tube	Outer Diameter inch/mm	Minimum Bend Radius Loaded inch/cm	Minimum Bend Radius Unloaded inch/cm	Installation Loading	Weight lbs/kft	Weight kg/km
Single Jacket 2-30 Fibers 	S-**XXX**-LN-**XY**-F06NS/**ZZZ**	6	0.47/11.8	7.05/17.7	4.7/11.8	Variable Zero fiber strain at full in-service load	70	104
32-60 Fibers	S-**XXX**-LN-**XY**-F12NS/**ZZZ**	12	0.47/11.8	7.05/17.7	4.7/11.8	Variable Zero fiber strain at full in-service load	70	104
62-72 Fibers	S-**XXX**-LN-**XY**-F12NS/**ZZZ**	12	0.51/12.8	7.65/19.2	5.1/12.8	Variable Zero fiber strain at full in-service load	83	123

**Depending on sag and loading conditions, fiber counts and clearance requirements*

Variables in the Catalog Number:

XXX = Total Fiber Count

XY = Fiber Grade

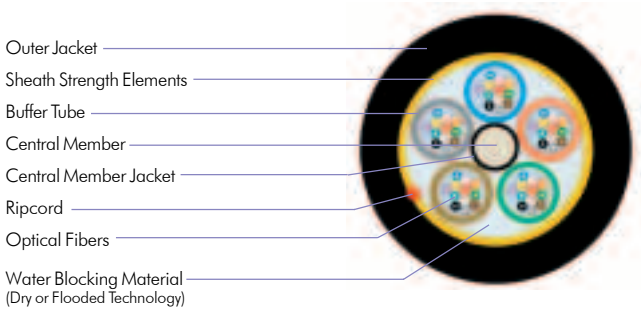
8W LightScope ZWP™ Dispersion-Unshifted, Matched-Clad Singlemode Fiber
8T LightScope NZD™ Non-Zero Dispersion-Shifted Singlemode Fiber
5L LaserCore® 300, 50µm, Multimode Fiber
5H 50µm, Multimode Fiber
5M LaserCore® 150, 50µm, Multimode Fiber
6F 62.5µm, FDDI Grade Multimode Fiber

For Composites Only:
aaa is replaced with singlemode fiber count
AA is replaced with singlemode type
bbb is replaced by multimode fiber count
BB is replaced by multimode type

Buffer Tubes/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

ADSS Double Jacket Loose Tube All-Dielectric Cable

(60 Fiber Version Shown)



Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40 to 70°C	FOTP-3
Installation Temperature	-30 to 60°C	N/A
Storage Temperature	-40 to 75°C	N/A
Crush Resistance	22 N/mm	FOTP-41
Impact Resistance	Exceeds	FOTP-25
Flexing	Exceeds	FOTP-104
Twist/Bend	Exceeds	FOTP-85

CommScope Outside Plant Fiber Optic cables are qualified to the requirements of Telcordia GR-20-CORE, Issue 2.

Specifications are subject to change without notice.

ADSS Double Jacketed Loose Tube Cable

All-Dielectric, Self-Supporting (ADSS) Aerial Design

For Aerial Long Haul and Metro Applications

- Custom engineered for each individual application
- Designed for zero fiber strain at full in-service tensile load
- Cable's round profile minimizes wind and ice loading to reduce cable sag and tensile forces or towers and support hardware
- Outstanding long span capability (up to 3,281 feet or 1,000 meters)*
- Fully qualified in accordance with Telcordia Technologies, EIA/TIA, IEEE and RUS Standards
- Tracking resistant cable available for space potentials up to 25kV that resists tracking (dry bandarcing)

Product Type/ Fiber Count	Catalog Number	Fibers Per Tube	Outer Diameter inch/mm	Minimum Bend Radius	Installation Loading	Weight
Double Jacket 2-30 Fibers 	S-**XXX**-LD-**XY**-F06NS/**ZZZ**	6	Variable	Variable 15 x cable outer diameter during installation	Variable Zero fiber strain at full in-service load (custom designed per application)	Variable
32-288 Fibers	S-**XXX**-LD-**XY**-F12NS/**ZZZ**	12	Variable	Variable 10 x cable outer diameter post installation	Variable Zero fiber strain at full in-service load (custom designed per application)	Variable

Also available in ribbon constructions with 300-864 fiber counts

**Depending on loading conditions, fiber counts and clearance requirements*

Variables in the Catalog Number:

XXX = Total Fiber Count

XY = Fiber Grade

8W LightScope ZWP™ Dispersion-Unshifted, Matched-Clad Singlemode Fiber
8T LightScope NZD™ Non-Zero Dispersion-Shifted Singlemode Fiber
5L LaserCore® 300, 50µm, Multimode Fiber
5H 50µm, Multimode Fiber
5M LaserCore® 150, 50µm, Multimode Fiber
6F 62.5µm, FDDI Grade Multimode Fiber

For Composites Only:
aaa is replaced with singlemode fiber count
AA is replaced with singlemode type
bbb is replaced by multimode fiber count
BB is replaced by multimode type

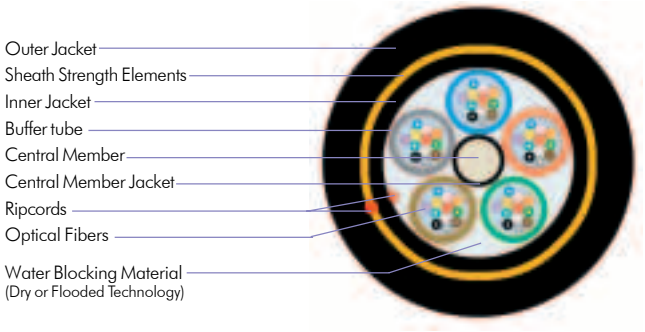
Buffer Tubes/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

Buffer Tubes 13-18 repeat color sequence with tracer stripe

Note: Add "AT" to the end of the catalog number if an anti-tracking (tracking resistant) cable is required.

ADSS Double Jacketed Loose Tube All-Dielectric Cable

(60 Fiber Version Shown)



Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40 to 70°C	FOTP-3
Installation Temperature	-30 to 60°C	N/A
Storage Temperature	-40 to 75°C	N/A
Crush Resistance	22 N/mm	FOTP-41
Impact Resistance	Exceeds	FOTP-25
Flexing	Exceeds	FOTP-104
Twist/Bend	Exceeds	FOTP-85

CommScope Outside Plant Fiber Optic cables are qualified to the requirements of Telcordia GR-20-CORE, Issue 2.

Specifications are subject to change without notice.

Outside Plant Self-Supporting Figure-8 Cable

Messengered Stranded Loose Tube All-Dielectric and Armored

CommScope

For Aerial Applications

- Figure-8 cable design allows easy, one-step installation resulting in cost savings
- Arid-Core® water blocking technology helps protect fibers from moisture and reduces termination effort
- Standard color-coding on fibers and buffer tubes helps ease installation
- All buffer tubes are constructed to a nominal OD of 3mm reducing the number of tools required in the field
- Uses standard figure-8 cable hardware and installation practices

Product Type/ Fiber Count	Catalog Number	Sub Units	Outer Diameter inch/mm	Minimum Bend Radius Loaded inch/cm	Minimum Bend Radius Unloaded inch/cm	Maximum Tensile Load Short Term lbs/newtons	Maximum Tensile Load Long Term lbs/newtons	Weight lbs/ kft	Weight kg/ km
Figure-8 Non-Armored 2 - 72 Fibers 	M-**XXX**-LN-**XY**-F12NS	6	0.48/12.3	37.3/49.4	18.6/24.7	607/2700	180/800	225	336
Figure-8 Armored 2 - 72 Fibers 	M-**XXX**-LA-**XY**-F12NS	6	0.55/14.1	40.3/56.4	20.1/28.2	607/2700	180/800	286	427
Singlemode/Multimode Composite (2-72 Fibers)	M-**XXX**-LN-**CM**-F12NS/**AAaaa/BBbbb** M-**XXX**-LA-**CM**-F12NS/**AAaaa/BBbbb**	Refer to above specifications.							

Variables in the Catalog Number:

XXX = Total Fiber Count
XY = Fiber Grade

8W LightScope ZWP™ Dispersion-Unshifted, Matched-Clad Singlemode Fiber
8T LightScope NZD™ Non-Zero Dispersion-Shifted Singlemode Fiber
5L LaserCore® 300, 50µm, Multimode Fiber
5H 50µm, Multimode Fiber
5M LaserCore® 150, 50µm, Multimode Fiber
6F 62.5µm, FDDI Grade Multimode Fiber

For Composites Only:
aaa is replaced with singlemode fiber count
AA is replaced with singlemode type
bbb is replaced by multimode fiber count
BB is replaced by multimode type

Buffer Tubes/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

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) Sag and tension tables are available providing the recommended sag or tension. Please contact Technical Services for more information.

Figure-8 Non-Armored Cable

(72 Fiber Version Shown)

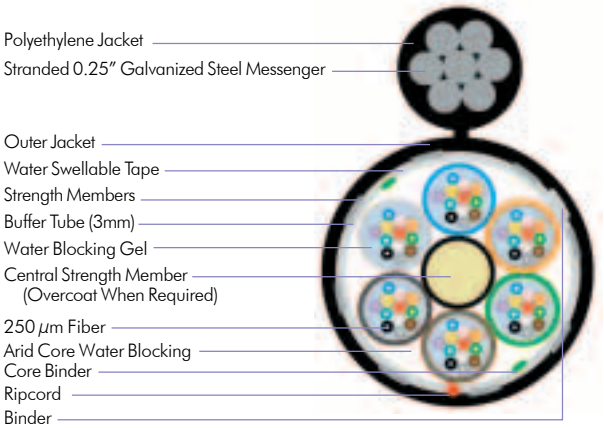
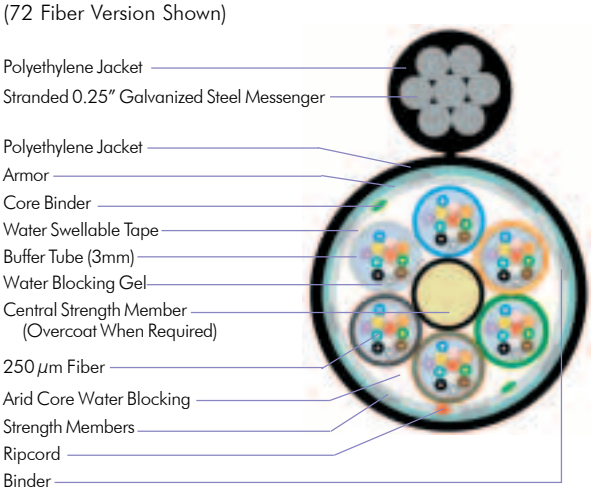


Figure-8 Armored Cable

(72 Fiber Version Shown)



Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40 to 70°C	FOTP-3
Installation Temperature	-30 to 60°C	N/A
Storage Temperature	-40 to 75°C	N/A
Crush Resistance	44 N/mm	FOTP-41

Description	Specification	Test Method
Impact Resistance	Exceeds	FOTP-25
Flexing	Exceeds	FOTP-104
Twist/Bend	Exceeds	FOTP-85

CommScope Outside Plant Fiber Optic cables are qualified to the requirements of Telcordia GR-20-CORE, Issue 2.

Specifications are subject to change without notice.

Multi-Jacketed Stranded Loose Tube Cable
Armored

Jacket/Armor Combinations for Buried/Underground/Aerial Applications

- Double armor cable provides additional crush and mechanical protection for areas with severe rodent and lightening problems
- Corrugated steel tape armor is strong yet flexible providing additional crush and rodent protection
- Arid-Core® water blocking technology helps protect fibers from moisture and reduces termination effort
- Standard color-coding on fibers and buffer tubes helps ease installation
- All buffer tubes are constructed to a nominal OD of 3mm reducing the number of tools required in the field
- Flexible buffer tubes improve kink-resistance, reduce bend sensitivity and facilitates route management in closures
- Medium Density Polyethylene jacket is rugged, durable and easy to strip
- Double jacket/single armor construction is Rural Utilities Service (RUS) listed

Product Type/ Fiber Count	Catalog Number	Sub Units	Outer Diameter inch/mm	Minimum Bend Radius Loaded inch/cm	Minimum Bend Radius Unloaded inch/cm	Maximum Tensile Load lbs/meters Short Term	Maximum Tensile Load lbs/meters Long Term	Weight lbs/ kft	Weight kg/ km
Double Jacket/ Single Armor 2 - 72 Fibers 	O-**XXX**-L2-**XY**-F12NS	6	.62/15.9	12.5/31.8	6.2/15.9	607/2700	180/800	148	220
74 - 96 Fibers	O-**XXX**-L2-**XY**-F12NS	8	.71/18.0	14.1/36.0	7.1/18.0	607/2700	180/800	180	269
Triple Jacket/ Double Armor 2 - 72 Fibers 	O-**XXX**-L3-**XY**-F12NS	6	.77/19.7	15.5/39.4	7.719.7	607/2700	180/800	334	498
Singlemode/Multimode Composite (2-72 Fibers)	O-**XXX**-L2-**CM**-F12NS/**AAaaa/BBbbb** O-**XXX**-L3-**CM**-F12NS/**AAaaa/BBbbb**	Refer to above specifications.							

Variables in the Catalog Number:

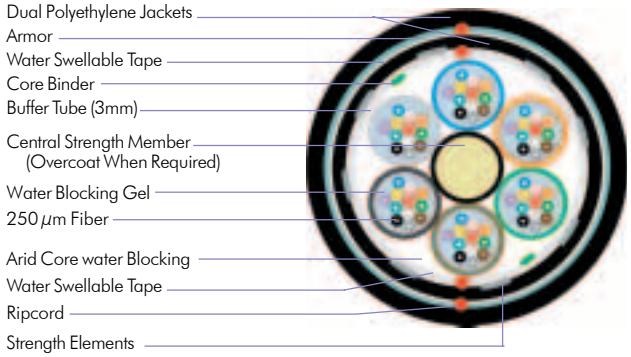
XXX = **Total Fiber Count**
XY = **Fiber Grade**

8W LightScope ZWP™ Dispersion-Unshifted, Matched-Clad Singlemode Fiber
8T LightScope NZD™ Non-Zero Dispersion-Shifted Singlemode Fiber
5L LaserCore® 300, 50µm, Multimode Fiber
5H 50µm, Multimode Fiber
5M LaserCore® 150, 50µm, Multimode Fiber
6F 62.5µm, FDDI Grade Multimode Fiber

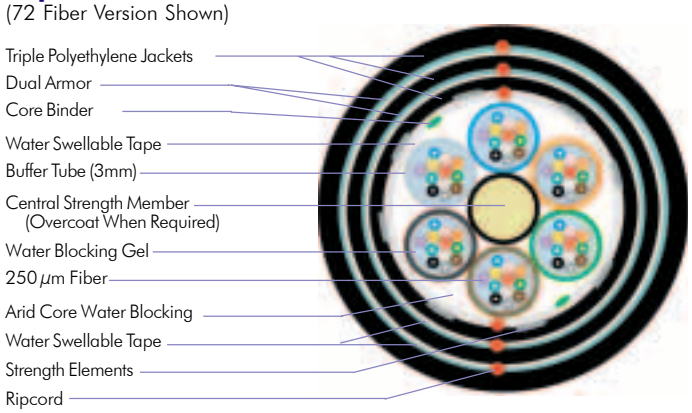
For Composites Only:
aaa is replaced with singlemode fiber count
AA is replaced with singlemode type
bbb is replaced by multimode fiber count
BB is replaced by multimode type

Buffer Tubes/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

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



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



Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40 to 70°C	FOTP-3
Installation Temperature	-30 to 60°C	N/A
Storage Temperature	-40 to 75°C	N/A
Crush Resistance	44 N/mm	FOTP-41

Description	Specification	Test Method
Impact Resistance	Exceeds	FOTP-25
Flexing	Exceeds	FOTP-104
Twist/Bend	Exceeds	FOTP-85

CommScope Outside Plant Fiber Optic cables are qualified to the requirements of Telcordia GR-20-CORE, Issue 2.

Specifications are subject to change without notice.

Outside Plant Flooded Stranded Loose Tube Cable
Armored

Jacket/Armor for Buried/Underground Aerial Applications

- Corrugated steel tape armor is strong yet flexible providing additional crush and rodent protection
- Standard color-coding on fibers and buffer tubes helps ease installation
- All buffer tubes are constructed to a nominal OD of 3mm reducing the number of tools required in the field
- Flexible buffer tubes improve kink-resistance, reduce bend sensitivity and facilitates route management in closures
- Medium density polyethylene jacket is rugged, durable and easy to strip
- Rural Utilities Service (RUS) listed

Product Type/ Fiber Count	Catalog Number	Sub Units	Outer Diameter inch/mm	Minimum Bend Radius Loaded inch/cm	Minimum Bend Radius Unloaded inch/cm	Maximum Tensile Load lbs/meters Short Term	Maximum Tensile Load lbs/meters Long Term	Weight lbs/kft	Weight kg/km
Single Jacket 2 - 60 Fibers	F-**XXX**-LA-**XY**-F12NS	5	.51/13.1	10.3/26.2	5.1/13.1	607/2700	180/800	133	199
62 - 72 Fibers 	F-**XXX**-LA-**XY**-F12NS	6	.55/14.1	11.1/28.2	5.5/14.1	607/2700	180/800	150	223
74 - 96 Fibers	F-**XXX**-LA-**XY**-F12NS	8	.63/16.1	12.6/32.2	6.3/16.1	607/2700	180/800	186	277
98 - 120 Fibers	F-**XXX**-LA-**XY**-F12NS	10	.71/18.2	14.3/36.4	7.1/18.2	607/2700	180/800	225	335
122 - 144 Fibers	F-**XXX**-LA-**XY**-F12NS	12	.80/20.3	15.9/40.6	8.0/20.3	607/2700	180/800	265	395
146 - 216 Fibers	F-**XXX**-LA-**XY**-F12NS	18	.78/20.0	15.7/40.0	7.8/20.0	607/2700	180/800	311	464
218 - 288 Fibers	F-**XXX**-LA-**XY**-F12NS	24	.90/23.0	18.1/46.0	9.0/23.0	607/2700	180/800	420	626
Singlemode/Multimode Composite (4-288 Fibers)	F-**XXX**-LA-**CM**-F12NS/**AAaaa/BBbbb**	Refer to above specifications.							

Variables in the Catalog Number:

XXX = Total Fiber Count
XY = Fiber Grade

8W LightScope ZWP™ Dispersion-Unshifted, Matched-Clad Singlemode Fiber
8T LightScope NZD™ Non-Zero Dispersion-Shifted Singlemode Fiber

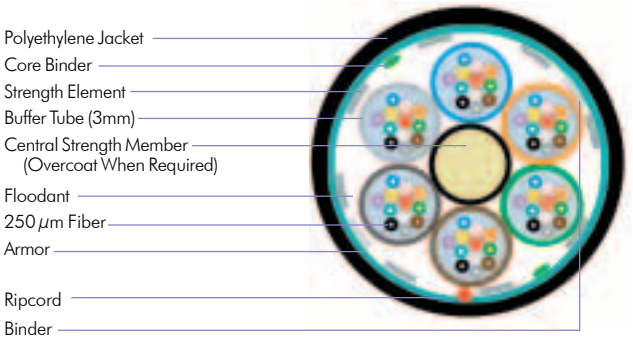
5L LaserCore® 300, 50µm, Multimode Fiber
5H 50µm, Multimode Fiber
5M LaserCore® 150, 50µm, Multimode Fiber
6F 62.5µm, FDDI Grade Multimode Fiber

For Composites Only:
aaa is replaced with singlemode fiber count
AA is replaced with singlemode type
bbb is replaced by multimode fiber count
BB is replaced by multimode type

Buffer Tubes/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua
Buffer Tubes 13-18 repeat color sequence with tracer stripe

Flooded Stranded Loose Tube Armored Cable

(72 Fiber Version Shown)



Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40 to 70°C	FOTP-3
Installation Temperature	-30 to 60°C	N/A
Storage Temperature	-40 to 75°C	N/A
Crush Resistance	44 N/mm	FOTP-41
Impact Resistance	Exceeds	FOTP-25
Flexing	Exceeds	FOTP-104
Twist/Bend	Exceeds	FOTP-85

CommScope Outside Plant Fiber Optic cables are qualified to the requirements of Telcordia GR-20-CORE, Issue 2.

Specifications are subject to change without notice.

Outside Plant Flooded Stranded Loose Tube Cable

All-Dielectric

For Buried/Underground/Aerial Applications

- Standard color-coding on fibers and buffer tubes helps ease installation
- All buffer tubes are constructed to a nominal OD of 3mm reducing the number of tools required in the field
- Flexible buffer tubes improve kink-resistance, reduce bend sensitivity and facilitates route management in closures
- Medium Density Polyethylene jacket is rugged, durable and easy to strip
- Rural Utilities Service (RUS) listed

Product Type/ Fiber Count	Catalog Number	Sub Units	Outer Diameter inch/mm	Minimum Bend Radius Loaded inch/cm	Minimum Bend Radius Unloaded inch/cm	Maximum Tensile Load lbs/meters Short Term	Maximum Tensile Load lbs/meters Long Term	Weight lbs/ kft	Weight kg/ km
Single Jacket 2 - 60 Fibers	F-**XXX**-LN-**XY**-F12NS	5	.46/11.6	9.1/23.2	4.6/11.6	607/2700	180/800	71	106
62 - 72 Fibers 	F-**XXX**-LN-**XY**-F12NS	6	.49/12.6	9.9/25.2	4.9/12.6	607/2700	180/800	82	122
74 - 96 Fibers	F-**XXX**-LN-**XY**-F12NS	8	.57/14.6	11.5/29.2	5.7/14.6	607/2700	180/800	107	160
98 - 120 Fibers	F-**XXX**-LN-**XY**-F12NS	10	.66/16.7	13.1/33.4	6.6/16.7	607/2700	180/800	135	201
122 - 144 Fibers	F-**XXX**-LN-**XY**-F12NS	12	.73/18.7	14.7/37.4	7.3/18.7	607/2700	180/800	165	246
146 - 216 Fibers	F-**XXX**-LN-**XY**-F12NS	18	.73/18.5	14.5/37.0	7.3/18.5	607/2700	180/800	211	315
218 - 288 Fibers	F-**XXX**-LN-**XY**-F12NS	24	.84/21.5	16.9/43.0	8.4/21.5	607/2700	180/800	304	453
Singlemode/Multimode Composite (4-288 Fibers)	F-**XXX**-LN-**CM**-F12NS/**AAaaa/BBbbb** Refer to above specifications.								

Variables in the Catalog Number:

XXX = **Total Fiber Count**
XY = **Fiber Grade**

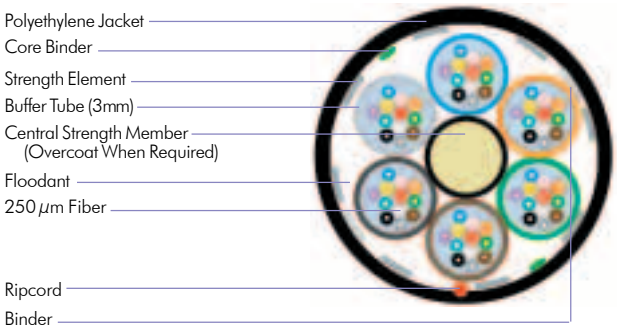
8W LightScope ZWP™ Dispersion-Unshifted, Matched-Clad Singlemode Fiber
8T LightScope NZD™ Non-Zero Dispersion-Shifted Singlemode Fiber
5L LaserCore® 300, 50µm, Multimode Fiber
5H 50µm, Multimode Fiber
5M LaserCore® 150, 50µm, Multimode Fiber
6F 62.5µm, FDDI Grade Multimode Fiber

For Composites Only:
aaa is replaced with singlemode fiber count
AA is replaced with singlemode type
bbb is replaced by multimode fiber count
BB is replaced by multimode type

Buffer Tubes/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua
Buffer Tubes 13-18 repeat color sequence with tracer stripe

Flooded Stranded Loose Tube All-Dielectric Cable

(72 Fiber Version Shown)



Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40 to 70°C	FOTP-3
Installation Temperature	-30 to 60°C	N/A
Storage Temperature	-40 to 75°C	N/A
Crush Resistance	44 N/mm	FOTP-41
Impact Resistance	Exceeds	FOTP-25
Flexing	Exceeds	FOTP-104
Twist/Bend	Exceeds	FOTP-85

CommScope Outside Plant Fiber Optic cables are qualified to the requirements of Telcordia GR-20-CORE, Issue 2.

Specifications are subject to change without notice.

ConQuest® Toneable Conduit™

Installed with Central Tube Fiber Optic Products

Fiber In ConQuest Toneable Conduit Cuts Installation Effort and Costs

- High strength 18 gauge copper clad steel tone wire saves installation dollars
- Moisture resistant polymer coated tone wire accurately detectable over various depths and lengths
- Tone wire embedded in the wall of the HDPE conduit results in easy wire removal
- Internally reinforced HDPE wall works with standard conduit connections

Cable Type/ Fiber Count	Fiber Part Number & Conduit Description	Cable OD & Weight (kft)	Available Conduit OD	Available Wall Thicknesses	Weight (lb/kft)* SDR 11	SDR 13.5	SCH 40
Central Tube Dielectric 2 - 24 Fibers 	O-**XXX**-CN-**XY**-F12NS Specify Conduit OD, Wall Thickness and Color	0.38" 60 lbs.	1"	SDR 11 or 13.5	265	230	
			1 1/4"	SDR 11 or 13.5	381	326	
			1 1/2"	SDR 11 or 13.5	477	405	
			2"	SDR 13.5 or SCH 40		593	533
Central Tube Dielectric 26 - 48 Fibers	O-**XXX**-CN-**XY**-F12NS Specify Conduit OD, Wall Thickness and Color	0.49" 103 lbs.	1"	SDR 11 or 13.5	273	238	
			1 1/4"	SDR 11 or 13.5	389	334	
			1 1/2"	SDR 11 or 13.5	485	413	
			2"	SDR 13.5 or SCH 40		601	541
Central Tube Dielectric 50 - 96 Fibers	O-**XXX**-CN-**XY**-F12NS Specify Conduit OD, Wall Thickness and Color	0.57" 130 lbs.	1"	SDR 11 or 13.5	291	256	
			1 1/4"	SDR 11 or 13.5	407	352	
			1 1/2"	SDR 11 or 13.5	503	431	
			2"	SDR 13.5 or SCH 40		619	559

Other cables and wall sizes may be available upon request.
For more information, please see the Conduit section of this catalog.

** Weight does not include reel.*

Variables in the Catalog Number:

XXX = Total Fiber Count
XY = Fiber Grade

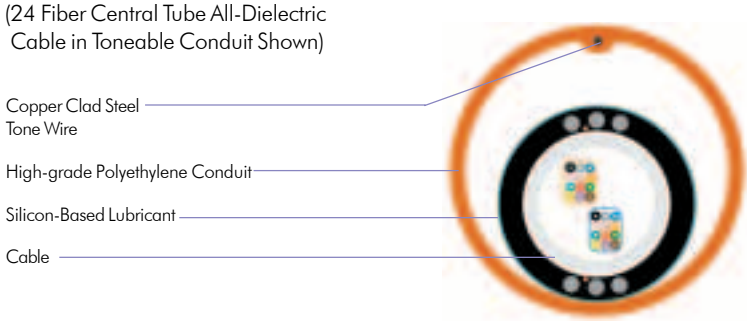
8W LightScope ZWP™ Dispersion-Unshifted, Matched-Clad Singlemode Fiber
8T LightScope NZD™ Non-Zero Dispersion-Shifted Singlemode Fiber
5L LaserCore® 300, 50µm, Multimode Fiber
5H 50µm, Multimode Fiber
5M LaserCore® 150, 50µm, Multimode Fiber
6F 62.5µm, FDDI Grade Multimode Fiber

For Composites Only:
aaa is replaced with singlemode fiber count
AA is replaced with singlemode type
bbb is replaced by multimode fiber count
BB is replaced by multimode type

Buffer Tubes/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

Typical Fiber-In-Conduit

(24 Fiber Central Tube All-Dielectric Cable in Toneable Conduit Shown)



Specifications are subject to change without notice.

ConQuest® Toneable Conduit™

Installed with Stranded Loose Tube Fiber Optic Products

CommScope®

Fiber In ConQuest Toneable Conduit Cuts Installation Effort and Costs

- High strength 18 gauge copper clad steel tone wire saves installation dollars
- Moisture resistant polymer coated tone wire accurately detectable over various depths and lengths
- Tone wire embedded in the wall of the HDPE conduit results in easy wire removal
- Internally reinforced HDPE wall works with standard conduit connections

Cable Type/ Fiber Count	Fiber Part Number & Conduit Description	Cable OD & Weight (kft)	Available Conduit OD	Available Wall Thicknesses	Weight (lb/kft)* SDR 11	SDR 13.5	SCH 40
Single Jacket Loose Tube Dielectric 2 - 60 Fibers	O-**XXX**-LN-**XY**-F12NS Specify Conduit OD, Wall Thickness and Color	0.46" 63 lbs.	1"	SDR 11 or 13.5	267	232	
			1 1/4"	SDR 11 or 13.5	383	328	
			1 1/2"	SDR 11 or 13.5	479	407	
			2"	SDR 13.5 or SCH 40		595	535
Single Jacket Loose Tube Dielectric 62 - 72 Fibers 	O-**XXX**-LN-**XY**-F12NS Specify Conduit OD, Wall Thickness and Color	0.50" 72 lbs.	1"	SDR 11 or 13.5	276	241	
			1 1/4"	SDR 11 or 13.5	392	337	
			1 1/2"	SDR 11 or 13.5	488	416	
			2"	SDR 13.5 or SCH 40		604	544
Single Jacket Loose Tube Dielectric 74 - 96 Fibers	O-**XXX**-LN-**XY**-F12NS Specify Conduit OD, Wall Thickness and Color	0.58" 95 lbs.	1"	SDR 11 or 13.5	299	264	
			1 1/4"	SDR 11 or 13.5	415	360	
			1 1/2"	SDR 11 or 13.5	511	439	
			2"	SDR 13.5 or SCH 40		627	567
Single Jacket Loose Tube Dielectric 98 - 120 Fibers	O-**XXX**-LN-**XY**-F12NS Specify Conduit OD, Wall Thickness and Color	0.66" 118 lbs.	1 1/4"	SDR 11 or 13.5	438	383	
			1 1/2"	SDR 11 or 13.5	534	462	
			2"	SDR 13.5 or SCH 40		650	590
Single Jacket Loose Tube Dielectric 122 - 144 Fibers	O-**XXX**-LN-**XY**-F12NS Specify Conduit OD, Wall Thickness and Color	0.74" 145 lbs.	1 1/4"	SDR 11 or 13.5	465	410	
			1 1/2"	SDR 11 or 13.5	561	489	
			2"	SDR 13.5 or SCH 40		677	617
Single Jacket Loose Tube Dielectric 146 - 216 Fibers	O-**XXX**-LN-**XY**-F12NS Specify Conduit OD, Wall Thickness and Color	0.74" 153 lbs.	1 1/4"	SDR 11 or 13.5	473	418	
			1 1/2"	SDR 11 or 13.5	569	497	
			2"	SDR 13.5 or SCH 40		743	625
Single Jacket Loose Tube Dielectric 218 - 288 Fibers	O-**XXX**-LN-**XY**-F12NS Specify Conduit OD, Wall Thickness and Color	0.86" 211 lbs.	1 1/2"	SDR 11 or 13.5	415	545	
			2"	SDR 13.5 or SCH 40		743	683

Other cables and wall sizes may be available upon request.
For more information, please see the Conduit section of this catalog.

** Weight does not include reel.*

Variables in the Catalog Number:

XXX = Total Fiber Count
XY = Fiber Grade

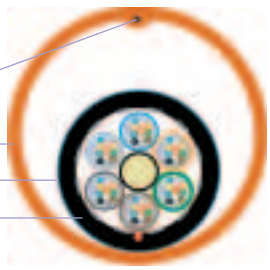
8W LightScope ZWP™ Dispersion-Unshifted, Matched-Clad Singlemode Fiber
8T LightScope NZD™ Non-Zero Dispersion-Shifted Singlemode Fiber
5L LaserCore® 300, 50µm, Multimode Fiber
5H 50µm, Multimode Fiber
5M LaserCore® 150, 50µm, Multimode Fiber
6F 62.5µm, FDDI Grade Multimode Fiber

For Composites Only:
aaa is replaced with singlemode fiber count
AA is replaced with singlemode type
bbb is replaced by multimode fiber count
BB is replaced by multimode type

Buffer Tubes/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua
Buffer Tubes 13-18 repeat color sequence with tracer stripe

Typical Fiber-In-Conduit

(72 Fiber Stranded Loose Tube All-Dielectric Cable in Toneable Conduit Shown)



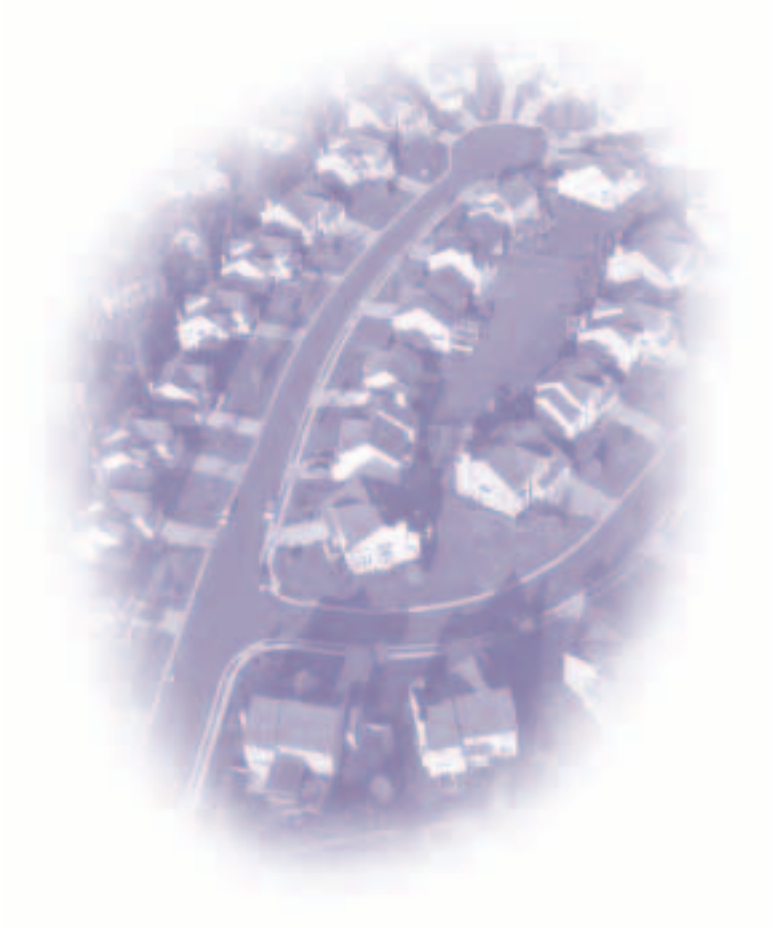
Specifications are subject to change without notice.

CommScope Hybrid Cables

Featuring Combinations of Coax, Fiber and/or Unshielded Twisted Pair

Revenue generating units, or RGUs are central to the business model of every broadband service provider and more than any other cable construction, hybrid cable designs are becoming the choice to enable numerous outlets for cable television, HDTV, computer networking, multi-line telephone service, security, energy management systems, and more–all via a single cable run.

Using our unique position as the one cable supplier manufacturing coax, twisted pair and fiber optic cables under one roof, CommScope employs advanced engineering technologies by extruding and testing each component of a hybrid cable simultaneously.



(shown above, top to bottom)
Fiber + UTP Hybrid Cable
Fiber + UTP + Coax Hybrid Cable
Fiber + Coax Hybrid Cable

CommScope offers true hybrid/composite cables featuring subunits contained within a single jacket. Our constructions offer the additional protection of an outside jacket compared to designs offered by many vendors that are merely a bundle of subunits wrapped together with a special tape or binder thread – frequently called "speed pull". CommScope hybrid cables are constructed from subunits carefully selected and performance-verified individually and as the sum of individual parts.

Special designs can be produced at your request, quickly and economically using our flexible manufacturing system. In fact, CommScope will help define the product that best meets your specific needs. Contact any CommScope sales representative at (800) 982-1708 to discuss your application.

CommScope Hybrid Cables
Features and Benefits

Features	Benefits
May contain copper UTP, coax and fiber optic subunits individually jacketed then cabled in a single bundle under one smooth surface.	• Great for multiple cable drops, phone/data lines, security systems and multi-media requirements • Saves time and installation dollars • Easier materials management • Components can be easily separated into individually jacketed points for easy termination • Capable of voice transmission, cable location and site powering • Avails future proofing for the demands of advanced data video and telecom-munications for subscribers • Less prone to snags and violations of cable bend radius limits • Enhances the cable's ruggedness enabling each subunit to better withstand the rigors of cable installation and remote field applications
Coax cable subunits	• Robust drop cable components are available in a variety of braid options and treatments to provide protection against moisture, liquids and gases while boasting excellent mechanical strength and transmission qualities
Singlemode and/or multimode fiber optic cable subunits	• Excellent for transmission of critical audio and video signals with extraordinary reliability and clarity. No other medium today can challenge fiber optics in bandwidth, distance and noise immunity • Available in armored constructions for additional rodent and environmental protection • Tight buffered, loose tube or central tube designs offered in singlemode or multimode optical fiber types and a range of grades
Copper twisted pair subunits	• Often used in broadband networks for powering nodes and pedestals • Specify Category 5e rather than Cat 5. The cost differential is small compared with the quality and performance advantages gained – including the potential for significantly higher speeds and greater capacity

CommScope Hybrid Cable

Fiber/22 AWG Copper Shielded Pairs

Features & Benefits

- The copper leg is designed to provide low voltage DC power for the optical components
- The optical leg is designed to carry voice, data and video
- Only a single installation is required
- Small, very flexible cable allowing for increased ease of installation, routing and termination
- The two legs can be easily separated as needed

Prodcut Type/ Fiber Count/Pair Count	Catalog Number	Outer Diameter Width x Height inch/mm	Minimum Bend Radius Loaded inch/cm	Minimum Bend Radius Unloaded inch/cm	Maximum Tensile Load Short term lbs./ Newtons	Maximum Tensile Load Long term lbs./Newtons	Weight lbs/ kft	Weight kg/ km
1 - 12 Fibers **1 - 6 22 AWG Pairs** 	O-**XXX**-DN-HY-F12NS/ **XYXXX**/NX22STP	0.34/860 x 0.65/16.58	26.0/66.3	13.0/3.2	300/1335	90/400	123	183.4

Variables in the Catalog Number:

XXX = **Total Fiber Count**

XY = **Fiber Grade**

8W LightScope ZWP™ Dispersion-Unshifted, Matched-Clad Singlemode Fiber

5L LaserCore® 300, 50µm, Multimode Fiber
5H 50µm, Multimode Fiber
5M LaserCore® 150, 50µm, Multimode Fiber
6F 62.5µm, FDDI Grade Multimode Fiber

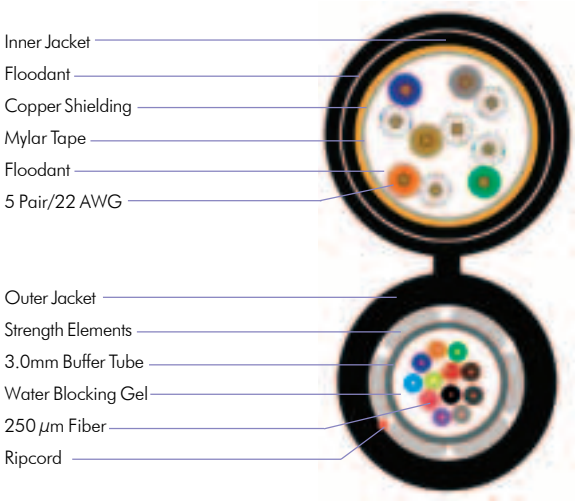
N = Number of Copper Pairs

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

Jacket Color: Black Medium Density Polyethylene

Arid-Core Construction Hybrid Cable

(12 Fiber Version Shown)



Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40 to 70°C	FOTP-3
Installation Temperature	-30 to 60°C	N/A
Storage Temperature	-40 to 70°C	N/A
Crush Resistance	10 N/mm	FOTP-41
Impact Resistance	Exceeds	FOTP-25
Flexing	Exceeds	FOTP-104
Twist/Bend	Exceeds	FOTP-85

CommScope Outside Plant Fiber Optic Drop cables are qualified to the ANSI/ ICEA S-XXX-717-2002 Standard for Optical Fiber Drop Cable.

Specifications are subject to change without notice.

CommScope Hybrid Cable
Fiber/6 Series Drop Cable (BrightWire®)

Features & Benefits
- The BrightWire drop cable leg is designed to carry video
- The optical leg is designed to carry voice and data
- Only a single installation is required
- Small, very flexible cable allowing for increased ease of installation, routing and termination
- The legs can be easily separated as needed

Product Type/ Fiber Count/Pair Count	Catalog Number	Outer Diameter Width x Height inch/mm	Minimum Bend Radius Loaded inch/cm	Minimum Bend Radius Unloaded inch/cm	Maximum Tensile Load Short term lbs./ Newtons	Maximum Tensile Load Long term lbs./Newtons	Weight lbs/ kft	Weight kg/ km
1 - 12 Fibers 	O-**XXX**-DN-HY-F12NS/ **XYXXX**/F6SSBW	0.30/7.62 x 0.59/15.08	23.7/60.3	11.8/30.2	300/1335	90/400	35	52.6
1 - 12 Fibers (with messenger) 	M-**XXX**-DN-HY-F12NS/ **XYXXX**/F6SSBW/ 083MW	0.30/7.62 x 0.75/111.4	30.1/76.7	15.0/38.3	300/1335	90/400	98	30.0

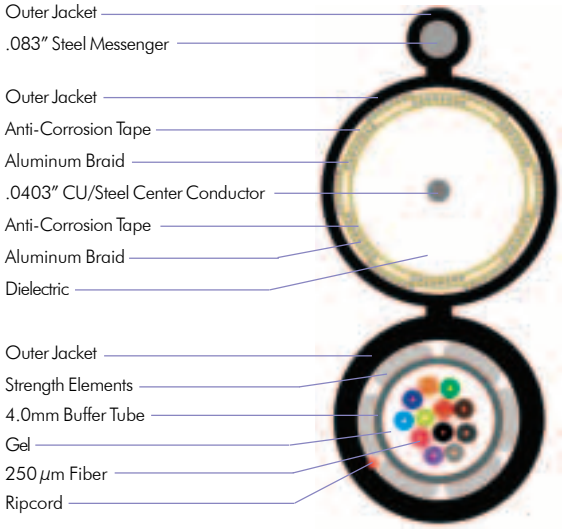
Variables in the Catalog Number:
XXX = Total Fiber Count
XY = Fiber Grade

8W LightScope ZWP™ Dispersion-Unshifted, Matched-Clad Singlemode Fiber
5L LaserCore® 300, 50µm, Multimode Fiber
5H 50µm, Multimode Fiber
5M LaserCore® 150, 50µm, Multimode Fiber
6F 62.5µm, FDDI Grade Multimode Fiber

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

Jacket Color: Black Medium Density Polyethylene

Arid-Core Construction Self-Supporting Hybrid Cable
(12 Fiber Version with Messenger Shown)



Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40 to 70°C	FOTP-3
Installation Temperature	-30 to 60°C	N/A
Storage Temperature	-40 to 70°C	N/A
Crush Resistance	10 N/mm	FOTP-41
Impact Resistance	Exceeds	FOTP-25
Flexing	Exceeds	FOTP-104
Twist/Bend	Exceeds	FOTP-85

CommScope Outside Plant Fiber Optic Drop cables are qualified to the ANSI/ ICEA S-XXX-717-2002 Standard for Optical Fiber Drop Cable.

Specifications are subject to change without notice.

CommScope Indoor/Outdoor Cables

Riser-Rated and Plenum-Rated Designs are Rugged for Outdoor Yet Safe for Indoor

Indoor/Outdoor Cables

These cables offer a unique blend of abilities. They are tough enough to withstand the rigors of the outside plant, yet are riser-rated (NEC 770 OFNR) or plenum-rated (NEC 770 OFNP) for indoor use. The advantage of an indoor/outdoor cable is that it can pass from the outside to the inside intact, with no need to transition from one cable type to another, thus saving the time and labor involved in creating an additional splice point. CommScope cables meet or exceed all Telcordia GR-409-CORE requirements as well as GR-20-CORE requirements for crush resistance, impact resistance, flexing and twist/bend.

Another technical achievement in CommScope's indoor/outdoor cables is the use of our Arid-Core® dry water-blocking technology. Instead of the traditional hard-to-clean flooding gel, Arid-Core remains dry inside the cable. 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.

Among CommScope's Indoor/Outdoor Constructions for Broadband Applications Are:

Riser-Rated

- Triathlon® Low Smoke/Zero Halogen (LSZH) Distribution cables of up to 24 tight buffered fibers
- Triathlon® Low Smoke/Zero Halogen (LSZH) Cordage cables in simplex, duplex, zipcord and interconnect designs
- Central Tube cables of up to 24 fibers in a robust all dielectric design
- Stranded Loose Tube cables available in counts up to 288 fibers

Plenum-Rated

- Stranded Loose Tube cables are available in counts up to 72 fibers

Triathlon® Indoor/Outdoor LSZH Distribution Cable

Low Smoke-Zero Halogen, Riser-Rated

LSZH Construction Permits Riser Applications as Well

- Black jackets are UV-stable for outdoor use yet meet critical NEC/CEC riser (OFNR and OFN-LS) safety standards
- Riser rating eliminates splice points at the building entrance
- Arid-Core® water blocking technology helps protect fibers from moisture
- Low-smoke zero-halogen gives added protection to building occupants and equipment
- Tight buffered construction reduces installation cost

Fiber Count	Catalog Number	Outer Diameter inch/mm	Minimum Bend Radius Loaded inch/cm	Minimum Bend Radius Unloaded inch/cm	Maximum Tensile Load Short term lbs./Newtons	Maximum Tensile Load Long term lbs./Newtons	Weight lbs/kft	Weight kg/km
4 Fibers (no central member)	Z-ØØ4-DS-**XY**-FSDBK	.19/4.8	3.8/9.6	2.0/4.8	300/1335	90/400	14	20
6 Fibers	Z-ØØ6-DS-**XY**-FSDBK	.20/5.2	4.1/10.3	2.0/5.2	300/1335	90/400	16	23
8 Fibers	Z-ØØ8-DS-**XY**-FSDBK	.23/5.8	4.6/11.7	2.3/5.8	300/1335	90/400	23	35
12 Fibers 	Z-Ø12-DS-**XY**-FSDBK	.26/6.6	5.2/13.3	2.6/6.6	400/1780	120/534	31	46
18 Fibers	Z-Ø18-DS-**XY**-FSDBK	.54/13.6	10.7/27.3	5.4/13.6	600/2670	180/801	98	146
24 Fibers 	Z-Ø24-DS-**XY**-FSDBK	.59/15.0	11.8/29.9	5.9/15.0	600/2670	180/801	126	187
36 Fibers	Z-Ø36-DS-**XY**-FSDBK	.66/16.9	13.3/33.7	6.6/16.9	800/3560	240/1068	149	222
48 Fibers	Z-Ø48-DS-**XY**-FSDBK	.73/18.6	14.6/37.2	7.3/18.6	800/3560	240/1068	192	285
60 Fibers	Z-Ø60-DS-**XY**-FSDBK	.82/20.9	16.5/41.9	8.2/20.9	1000/4450	300/1335	244	364
72 Fibers 	Z-Ø72-DS-**XY**-FSDBK	.91/23.0	18.1/46.1	9.1/23.0	1000/4450	300/1335	302	449
Singlemode/Multimode Composite (4 - 72 Fibers)	Z-ØØØ-DS-**CM**-FSDBK/**AAaaa/BBbbb**	Custom design - sizes/specs will vary depending on fiber count						

Variables in the Catalog Number:

XXX = Total Fiber Count
XY = Fiber Grade

8W LightScope ZWP™ Dispersion-Unshifted, Matched-Clad Singlemode Fiber

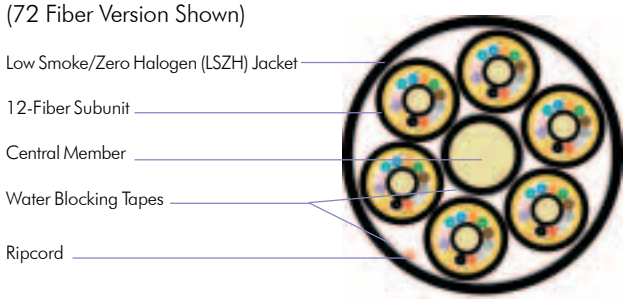
5L LaserCore® 300, 50µm, Multimode Fiber
5H 50µm, Multimode Fiber
5M LaserCore® 150, 50µm, Multimode Fiber
6F 62.5µm, FDDI Grade Multimode Fiber

For Composites Only:
aaa is replaced with singlemode fiber count
AA is replaced with singlemode type
bbb is replaced by multimode fiber count
BB is replaced by multimode type

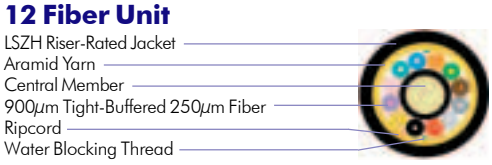
Tight Buffer /Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua
Jacket Color: UV Stabilized Black

Triathlon LSZH Indoor/Outdoor Riser-Rated Distribution Cable

(72 Fiber Version Shown)



12 Fiber Unit



Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40 to 70°C	FOTP-3
Installation Temperature	0 to 70°C	N/A
Storage Temperature	-40 to 70°C	N/A
Crush Resistance	22 N/mm	FOTP-41
Impact Resistance	20 impacts of 3 N.m.	FOTP-25
Flexing	Exceeds	FOTP-104
Twist/Bend	Exceeds	FOTP-85

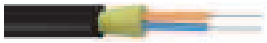
Specifications are subject to change without notice.

Triathlon® Indoor/Outdoor LSZH Cordage Cable

Low Smoke-Zero Halogen, Riser-Rated

LSZH Construction Permits Riser Applications as Well

- Black jackets are UV-stable for outdoor use yet meet critical NEC/CEC riser (OFNR and OFN-LS) safety standards
- Riser rating eliminates splice points at the building entrance
- Arid-Core® water blocking technology helps protect fibers from moisture
- Low-smoke zero-halogen gives added protection to building occupants and equipment
- Simplex, duplex and zipcord cables available in a variety of sizes
- Designed for ease of handling and termination

Cable Type/Unit Size	Catalog Number	Outer Diameter inch/mm	Minimum Bend Radius Loaded inch/cm	Minimum Bend Radius Unloaded inch/cm	Maximum Tensile Load Short term lbs./ Newtons	Maximum Tensile Load Long term lbs./Newtons	Weight lbs/ kft	Weight kg/ km
Simplex/2.9mm Standard 	Z-ØØ1-SP-**XY**-F29BK	.11/2.9	2.3/5.8	1.2/3.0	60/267	18/80	6.2	9.2
Duplex/2.5mm Standard 	Z-ØØ2-DU-**XY**-F25BK	.13/3.4 x .23/5.9	2.6/6.7	1.3/3.4	90/400	27/120	14.9	22.2
Zipcord/2.9mm Standard 	Z-ØØ2-ZC-**XY**-F29BK	.11/2.9 x .23/5.9	2.3/5.8	1.2/3.0	90/400	27/120	12.4	18.5
2 Fiber Interconnect 	Z-ØØ2-IC-**XY**-FSDBK	.15/3.9	3.0/7.7	1.5/3.9	225/1001	68/300	7.8	11.6

Variables in the Catalog Number:

XXX = Total Fiber Count

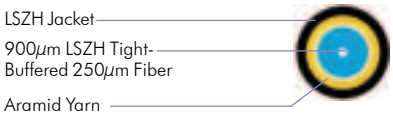
XY = Fiber Grade

8W LightScope ZWP™ Dispersion-Unshifted, Matched-Clad Singlemode Fiber

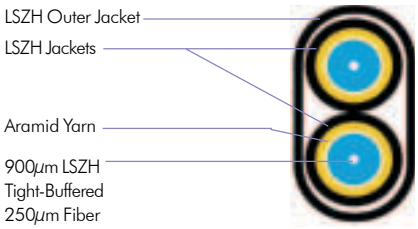
5L LaserCore® 300, 50µm, Multimode Fiber
5H 50µm, Multimode Fiber
5M LaserCore® 150, 50µm, Multimode Fiber
6F 62.5µm, FDDI Grade Multimode Fiber

Fiber Identification Colors: 1/Blue, 2/Orange,
Jacket Color: UV Stabilized Black

Triathlon Indoor/Outdoor LSZH Simplex Cable



Triathlon Indoor/Outdoor LSZH Duplex Cable



Triathlon Indoor/Outdoor LSZH 2-Fiber Interconnect Cable

Triathlon Indoor/Outdoor LSZH Zipcord Cable

Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40 to 70°C	FOTP-3
Installation Temperature	0 to 70°C	N/A
Storage Temperature	-40 to 70°C	N/A
Crush Resistance	10 N/mm	FOTP-41
Impact Resistance	20 impacts of 0.74 N.m.	FOTP-25
Flexing	Exceeds	FOTP-104
Twist/Bend	Exceeds	FOTP-85

Specifications are subject to change without notice.

Indoor/Outdoor Stranded Loose Tube Cable

Riser-Rated

- All meet critical NEC/CEC riser (OFNR) safety standards, eliminating the need for splice point at building entrance
- Arid-Core® water blocking technology helps protect fibers from moisture
- Standard color-coding on fibers and buffer tubes helps ease installation
- All buffer tubes are constructed to a nominal OD of 3mm

Product Type/ Fiber Count	Catalog Number	Sub Units	Outer Diameter inch/mm	Minimum Bend Radius Loaded inch/cm	Minimum Bend Radius Unloaded inch/cm	Maximum Tensile Load lbs/meters Short Term	Maximum Tensile Load lbs/meters Long Term	Weight lbs/ kft	Weight kg/ km
Single Jacket 2 - 60 Fibers	R-**XXX**-LN-**XY**-F12BK	5	.50/12.8	10.0/25.6	5.0/12.8	607/2700	180/800	102	152
62 - 72 Fibers 	R-**XXX**-LN-**XY**-F12BK	6	.53/13.6	10.7/27.2	5.3/13.6	607/2700	180/800	116	173
74 - 96 Fibers	R-**XXX**-LN-**XY**-F12BK	8	.62/15.7	12.3/31.4	6.2/15.7	607/2700	180/800	152	226
98 - 120 Fibers	R-**XXX**-LN-**XY**-F12BK	10	.69/17.7	13.9/35.4	6.9/17.7	607/2700	180/800	192	287
122 - 144 Fibers	R-**XXX**-LN-**XY**-F12BK	12	.78/19.8	15.5/39.6	7.8/19.8	607/2700	180/800	239	357
146- 216 Fibers	R-**XXX**-LN-**XY**-F12BK	18	.80/20.5	16.1/41.0	8.0/20.5	607/2700	180/800	239	357
218- 288 Fibers	R-**XXX**-LN-**XY**-F12BK	24	.92/23.4	18.4/46.8	9.2/23.4	607/2700	180/800	329	491
Singlemode/Multimode Composite (4-288 Fibers)	R-**XXX**-LN-**XY**-F12BK/**AAaaa/BBbbb** Refer to above specifications.								
Available in heavy duty dual jacket up to 96 count (minimum order required).									

Variables in the Catalog Number:

XXX = **Total Fiber Count**
XY = **Fiber Grade**

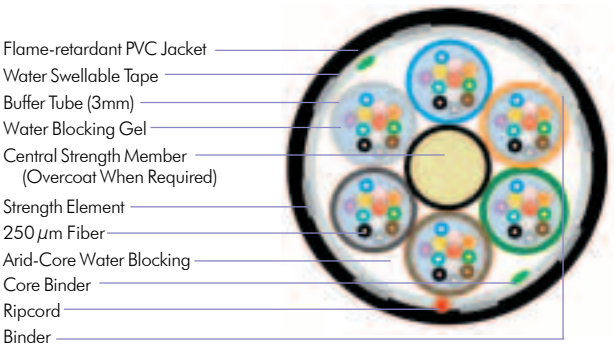
8W LightScope ZWP™ Dispersion-Unshifted, Matched-Clad Singlemode Fiber
5L LaserCore® 300, 50µm, Multimode Fiber
5H 50µm, Multimode Fiber
5M LaserCore® 150, 50µm, Multimode Fiber
6F 62.5µm, FDDI Grade Multimode Fiber

For Composites Only:
aaa is replaced with singlemode fiber count
AA is replaced with singlemode type
bbb is replaced by multimode fiber count
BB is replaced by multimode type

Buffer Tubes/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua
Buffer Tubes 13-18 repeat color sequence with tracer stripe
Jacket Color: Black PVC with optional co-extruded color stripes

Riser-Rated Indoor/Outdoor Stranded Loose Tube Cable

(72 Fiber Version Shown)



Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40 to 70°C	FOTP-3
Installation Temperature	-20 to 60°C	N/A
Storage Temperature	-40 to 70°C	N/A
Crush Resistance	44 N/mm	FOTP-41
Impact Resistance	Exceeds	FOTP-25
Flexing	Exceeds	FOTP-104
Twist/Bend	Exceeds	FOTP-85

CommScope Indoor/Outdoor fiber optic cables are qualified to a combination of the requirements of Telcordia GR-20 CORE, Issue 2 and Telcordia GR-409-CORE, Section 6

Specifications are subject to change without notice.

Indoor/Outdoor Stranded Loose Tube Cable

Plenum-Rated

- All meet critical NEC/CEC riser (OFNR) safety standards, eliminating the need for splice point at building entrance
- Arid-Core® water blocking technology helps protect fibers from moisture
- Standard color-coding on fibers and buffer tubes helps ease installation
- All buffer tubes are constructed to a nominal OD of 3mm

Product Type/ Fiber Count	Catalog Number	Sub Units	Outer Diameter inch/mm	Minimum Bend Radius Loaded inch/cm	Minimum Bend Radius Unloaded inch/cm	Maximum Tensile Load lbs/meters Short Term	Maximum Tensile Load lbs/meters Long Term	Weight lbs/kft	Weight kg/km
Single Jacket 2 - 60 Fibers	P-**XXX**-LN-**XY**-F12BK	5	.43/11.0	8.7/22.0	4.3/11.0	600/2670	180/801	78	116
61 - 72 Fibers 	P-**XXX**-LN-**XY**-F12BK	6	.47/11.9	9.3/23.7	4.7/11.9	600/2670	180/801	92	136
Singlemode/Multimode Composite (2-72 Fibers)	P-**XXX**-LN-CM-F12BK/**AAaaa/BBbbb** Refer to above specifications.								

Variables in the Catalog Number:

XXX = Total Fiber Count
XY = Fiber Grade

8W LightScope ZWP™ Dispersion-Unshifted, Matched-Clad Singlemode Fiber

5L LaserCore® 300, 50µm, Multimode Fiber
5H 50µm, Multimode Fiber
5M LaserCore® 150, 50µm, Multimode Fiber
6F 62.5µm, FDDI Grade Multimode Fiber

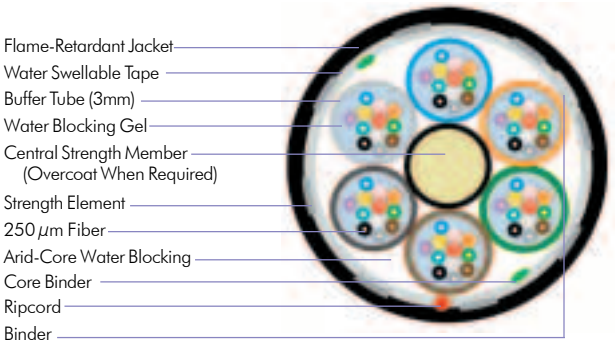
For Composites Only:
aaa is replaced with singlemode fiber count
AA is replaced with singlemode type
bbb is replaced by multimode fiber count
BB is replaced by multimode type

Buffer Tubes/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

Buffer Tubes 13-18 repeat color sequence with tracer stripe
Jacket Color: Black PVC with optional co-extruded color stripes

Plenum-Rated Indoor/Outdoor Stranded Loose Tube Cable

(72 Fiber Version Shown)



Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40 to 70°C	FOTP-3
Installation Temperature	-30 to 60°C	N/A
Storage Temperature	-40 to 75°C	N/A
Crush Resistance	44 N/mm	FOTP-41
Impact Resistance	Exceeds	FOTP-25
Flexing	Exceeds	FOTP-104
Twist/Bend	Exceeds	FOTP-85

CommScope Indoor/Outdoor fiber optic cables are qualified to a combination of the requirements of Telcordia GR-20 CORE, Issue 2 and Telcordia GR-409-CORE, Section 6

Specifications are subject to change without notice.

Indoor/Outdoor Central Tube Cables
Riser-Rated

Multiple Constructions to Meet Your Specific Application

- All meet critical NEC/CEC riser (OFNR) safety standards eliminating the need for splice point at building entrance
- Arid-Core® water blocking technology helps protect fibers from moisture
- Standard color-coding on fibers helps ease installation

Product Type/ Fiber Count	Catalog Number	Sub Units	Outer Diameter inch/mm	Minimum Bend Radius Loaded inch/cm	Minimum Bend Radius Unloaded inch/cm	Maximum Tensile Load lbs/meters Short Term	Maximum Tensile Load lbs/meters Long Term	Weight lbs/kft	Weight kg/km
Single Jacket 2-24 Fibers, 4mm Tube 	R-**XXX**-CN-**XY**-F12BK	2	.41/10.5	8.2/21.0	4.1/10.5	607/2700	180/800	68	101
Singlemode/Multimode Composite (2-24 Fibers)	R-**XXX**-CN-CM-F12BK/**AAaaa/BBbbb** Refer to above specifications. Tube size will vary dependent on fiber count/configuration.								

Variables in the Catalog Number:

XXX = **Total Fiber Count**
XY = **Fiber Grade**

8W LightScope ZWP™ Dispersion-Unshifted, Matched-Clad Singlemode Fiber

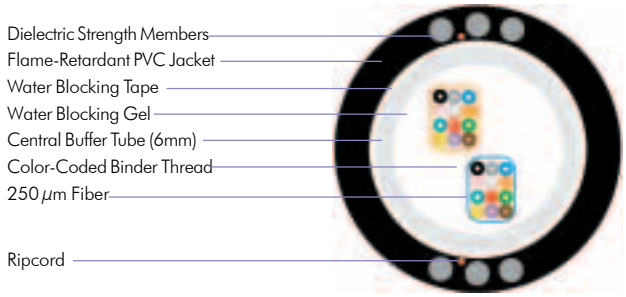
5L LaserCore® 300, 50µm, Multimode Fiber
5H 50µm, Multimode Fiber
5M LaserCore® 150, 50µm, Multimode Fiber
6F 62.5µm, FDDI Grade Multimode Fiber

For Composites Only:
aaa is replaced with singlemode fiber count
AA is replaced with singlemode type
bbb is replaced by multimode fiber count
BB is replaced by multimode type

Identification Threads/Fiber 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
Jacket Color: Black PVC with optional co-extruded color stripes

Indoor/Outdoor Central Tube Cable

(24 Fiber Version Shown)



Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40 to 70°C	FOTP-3
Installation Temperature	-20 to 60°C	N/A
Storage Temperature	-40 to 70°C	N/A
Crush Resistance	44 N/mm	FOTP-41
Impact Resistance	Exceeds	FOTP-25
Flexing	Exceeds	FOTP-104
Twist/Bend	Exceeds	FOTP-85

CommScope Indoor/Outdoor fiber optic cables are qualified to a combination of the requirements of Telcordia GR-20 CORE, Issue 2 and Telcordia GR-409-CORE, Section 6

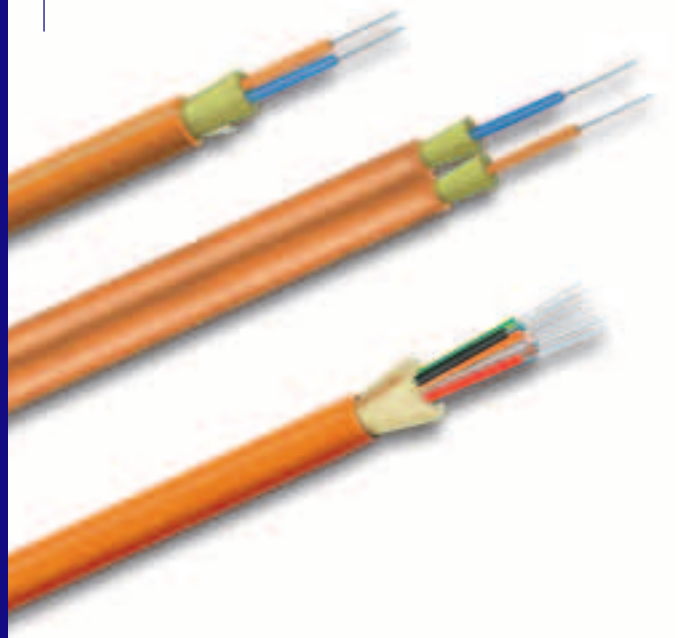
Specifications subject to change without notice.

CommScope Premise Cables

Riser and Plenum-Rated Designs for Indoor Applications

CommScope offers a complete line of riser and plenum rated cables for use inside buildings and customer premises. As with Outside Plant cables, CommScope cables for premises are available with application-specific fibers such as LightScope ZWP™ and LaserCore™ fiber optic glass types (type 8W and 5L, respectively).

There are a number of standard singlemode and multimode fiber offerings that provide a diverse range of products that will suit all of your cabling needs. The LaserCore cordage and building cables can be used today with 10-Mbps applications and will carry you into the future for systems that will run 10-Gbps. The total system will carry you from the outside plant through the building entrance up the riser, across the horizontal, all the way to the work station. CommScope's complete system of cable and components will meet your current and future needs.



Engineered with two goals in mind - excellent mechanical/optical performance coupled with superior fire safety ratings, CommScope premises cables offer a family of cables that meet all critical NEC requirements for riser or plenum applications while offering unique resistance to installation and termination stresses.

Buffered subunits of 12 fibers are engineered into constructions that are up to 30% smaller in diameter and 50% lighter than comparable products. The result is a compact cable that easily installs and terminates.

Riser-Rated Premise Cables Include:

- Riser-Rated Distribution cable designed with up to 144 fibers
- Indoor/Outdoor Distribution cable containing up to 24 fibers
- Stranded Loose Tube design up to 288 fibers
- Riser-Rated Cordage

Plenum-Rated Premise Cables Include:

- Plenum-Rated Distribution cable designed with up to 144 fibers
- Plenum-Rated Cordage

Premises fiber optic cable meet or exceed performance standards as established by Bellcore Telcordia GR-409, TIA/EIA 568B, ICEA 83-596, ANSI X3.166-1990 & X3T9.5 PMD, FDDI, ATM, Fibre Channel and HIPPI.

Riser and Plenum Cables will follow Telcordia GR-409 jacket color code specs: singlemode is yellow, and multimode and composites are orange.

Premise Riser-Rated Distribution Cable

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

Fiber Count	Catalog Number	Outer Diameter inch/mm	Minimum Bend Radius Loaded inch/cm	Minimum Bend Radius Unloaded inch/cm	Maximum Tensile Load Short term lbs./ Newtons	Maximum Tensile Load Long term lbs./Newtons	Weight lbs/ kft	Weight kg/ km
4 Fibers	R-ØØ4-DS-**XY**-FSD**ZZ**	.19/4.8	3.8/9.5	2.0/5.1	300/1335	90/400	13	19
6 Fibers	R-ØØ6-DS-**XY**-FSD**ZZ**	.20/5.1	4.1/10.3	2.0/5.1	300/1335	90/400	15	23
8 Fibers	R-ØØ8-DS-**XY**-FSD**ZZ**	.22/5.5	4.3/11.0	2.2/5.5	300/1335	90/400	17	26
12 Fibers 	R-Ø12-DS-**XY**-FSD**ZZ**	.23/5.8	4.6/11.7	2.3/5.8	300/1335	90/400	19	28
18 Fibers	R-Ø18-DS-**XY**-FSD**ZZ**	.48/12.3	9.7/24.6	4.8/12.3	600/2670	180/801	100	148
24 Fibers	R-Ø24-DS-**XY**-FSD**ZZ**	.56/14.1	11.1/28.2	5.6/14.1	600/2670	180/801	107	160
36 Fibers (3 subunits)	R-Ø36-DS-**XY**-FSD**ZZ**	.56/14.2	11.2/28.5	5.6/14.2	800/3560	240/1068	119	177
48 Fibers (4 subunits)	R-Ø48-DS-**XY**-FSD**ZZ**	.62/15.7	12.3/31.3	6.2/15.7	800/3560	240/1068	127	188
60 Fibers (5 subunits)	R-Ø6Ø-DS-**XY**-FSD**ZZ**	.70/17.7	13.9/35.3	7.0/17.7	1000/4450	300/1335	171	254
72 Fibers (6 subunits)	R-Ø72-DS-**XY**-FSD**ZZ**	.77/19.6	15.4/39.1	7.7/19.6	1000/4450	300/1335	211	314
96 Fibers (8 subunits)	R-Ø96-DS-**XY**-FSD**ZZ**	.92/23.4	18.4/46.7	9.2/23.4	1000/4450	300/1335	309	459
144 Fibers (12 subunits)	R-144-DS-**XY**-FSD**ZZ**	1.00/25.3	19.9/50.6	10.0/25.3	1000/4450	300/1335	310	461
Singlemode/Multimode Composite (4 - 144 Fibers)	R-**XXX**-DS-CM-FSDOR/**AAaaa/BBbbb**	Custom design - sizes/specs will vary depending on fiber count						

Variables in the Catalog Number:

XXX = **Total Fiber Count**
XY = **Fiber Grade**
8W LightScope ZWP™ Dispersion-Unshifted, Matched-Clad Singlemode Fiber
5L LaserCore® 300, 50µm, Multimode Fiber
5H 50µm, Multimode Fiber
5M LaserCore® 150, 50µm, Multimode Fiber
6F 62.5µm, FDDI Grade Multimode Fiber

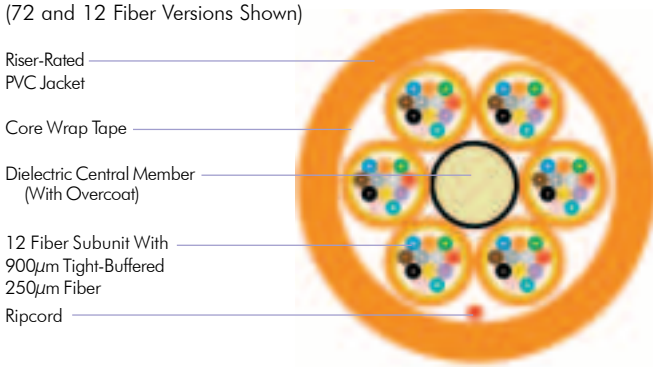
ZZ = **Standard Jacket Color** **YL** (Yellow - Singlemode Cable)
OR (Orange Multimode or Composite Cable)
AQ (Aqua LaserCore®)

For Composites Only: **aaa** is replaced with singlemode fiber count
AA is replaced with singlemode type
bbb is replaced by multimode fiber count
BB is replaced by multimode type

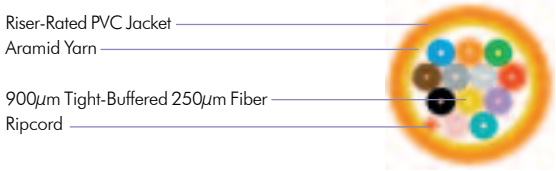
Tight Buffer/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua
Subunits are numbered for easy identification

Riser Distribution Cable

(72 and 12 Fiber Versions Shown)



12 Fiber Unit



Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-20 to 70°C	FOTP-3
Installation Temperature	0 to 70°C	N/A
Storage Temperature	-40 to 70°C	N/A
Crush Resistance	10 N/mm	FOTP-41
Impact Resistance	20 impacts of 5.88 N.m.	FOTP-25
Flexing	Exceeds	FOTP-104
Twist/Bend	Exceeds	FOTP-85

Specifications are subject to change without notice.

Premise Plenum-Rated Distribution Cable

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

Fiber Count	Catalog Number	Outer Diameter inch/mm	Mininum Bend Radius Loaded inch/cm	Unloaded inch/cm	Maximum Tensile Load Short term lbs./ Newtons	Long term lbs./Newtons	Weight lbs/ kft	kg/ km
4 Fibers	P-ØØ4-DS-**XY**-FSD**ZZ**	.17/4.4	3.4/8.7	1.7/4.4	300/1335	90/400	12	18
6 Fibers	P-ØØ6-DS-**XY**-FSD**ZZ**	.19/4.8	3.8/9.7	1.9/4.8	300/1335	90/400	15	22
8 Fibers	P-ØØ8-DS-**XY**-FSD**ZZ**	.20/5.1	4.0/10.2	2.0/5.1	300/1335	90/400	17	25
12 Fibers 	P-Ø12-DS-**XY**-FSD**ZZ**	.22/5.7	4.5/11.4	2.2/5.7	300/1335	90/400	21	31
18 Fibers	P-Ø18-DS-**XY**-FSD**ZZ**	.42/10.6	8.3/21.2	4.2/10.6	600/2670	180/801	65	96
24 Fibers	P-Ø24-DS-**XY**-FSD**ZZ**	.49/12.3	9.7/24.6	4.9/12.3	600/2670	180/801	83	123
36 Fibers (3 subunits)	P-Ø36-DS-**XY**-FSD**ZZ**	.54/13.7	10.8/27.4	5.4/13.7	800/3560	240/1068	128	191
48 Fibers (4 subunits)	P-Ø48-DS-**XY**-FSD**ZZ**	.60/15.1	11.9/30.2	6.0/15.1	800/3560	240/1068	138	205
60 Fibers (5 subunits)	P-Ø6Ø-DS-**XY**-FSD**ZZ**	.68/17.2	13.6/34.5	6.8/17.2	1000/4450	300/1335	190	282
72 Fibers (6 subunits)	P-Ø72-DS-**XY**-FSD**ZZ**	.75/19.1	15.1/38.3	7.5/19.1	1000/4450	300/1335	237	353
96 Fibers (8 subunits)	P-Ø96-DS-**XY**-FSD**ZZ**	.90/23.0	18.1/46.0	9.0/23.0	1000/4450	300/1335	361	537
144 Fibers (12 subunits)	P-144-DS-**XY**-FSD**ZZ**	.95/24.1	19.0/48.2	9.5/24.1	1000/4450	300/1335	331	492
Singlemode/Multimode Composite (4 - 144 Fibers)	P-**XXX**-DS-CM-FSDOR/**AAaaa/BBbbb**	Custom design - sizes/specs will vary depending on fiber count						

Variables in the Catalog Number:

XXX = **Total Fiber Count**
XY = **Fiber Grade**
8W LightScope ZWP™ Dispersion-Unshifted, Matched-Clad Singlemode Fiber
5L LaserCore® 300, 50µm, Multimode Fiber
5H 50µm, Multimode Fiber
5M LaserCore® 150, 50µm, Multimode Fiber
6F 62.5µm, FDDI Grade Multimode Fiber

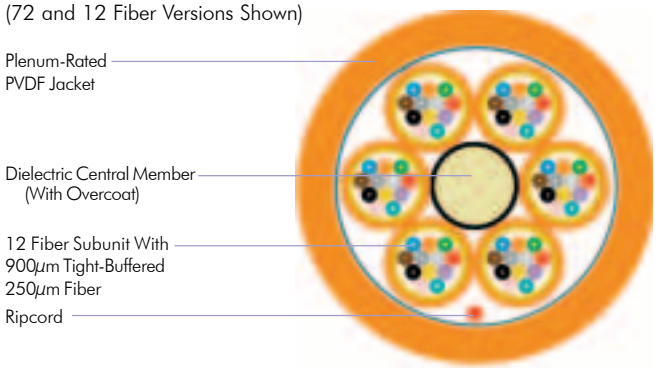
ZZ = **Standard Jacket Color** **YL** (Yellow - Singlemode Cable)
OR (Orange Multimode or Composite Cable)
AQ (Aqua LaserCore®)

For Composites Only: **aaa** is replaced with singlemode fiber count
AA is replaced with singlemode type
bbb is replaced by multimode fiber count
BB is replaced by multimode type

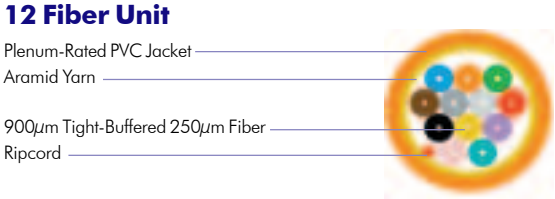
Tight Buffer/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua
Subunits are numbered for easy identification

Plenum Distribution Cable

(72 and 12 Fiber Versions Shown)



12 Fiber Unit



Mechanical Properties

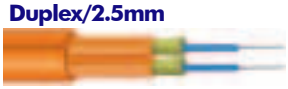
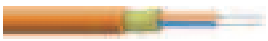
Description	Specification	Test Method
Operating Temperature	-20 to 70°C	FOTP-3
Installation Temperature	0 to 70°C	N/A
Storage Temperature	-40 to 70°C	N/A
Crush Resistance	10 N/mm	FOTP-41
Impact Resistance	20 impacts of 5.88 N.m.	FOTP-25
Flexing	Exceeds	FOTP-104
Twist/Bend	Exceeds	FOTP-85

Specifications are subject to change without notice.

Premise Riser-Rated Cordage Cable

Several Constructions Available for a Variety of Applications

- Meets critical NEC/CEC riser (OFNR) safety standards
- Simplex, duplex and zipcord cables available in a variety of sizes
- Heavy-duty simplex and duplex cables help absorb extra handling stresses when using proper installation techniques
- Designed for ease of handling and termination

Cable Type/Unit Size	Catalog Number	Outer Diameter inch/mm	Minimum Bend Radius Loaded inch/cm	Minimum Bend Radius Unloaded inch/cm	Maximum Tensile Load Short term lbs./ Newtons	Maximum Tensile Load Long term lbs./Newtons	Weight lbs/ kft	Weight kg/ km
Simplex/1.6mm 	R-ØØ1-SP-**XY**-F16**ZZ**	0.06/1.6	2.0/5.0	1.2/3.0	35/156	11/47	1.9	2.9
Simplex /2.9mm	R-ØØ1-SP-**XY**-F29**ZZ**	0.11/2.9	2.3/5.8	1.2/3.0	60/267	18/80	5.8	8.7
Duplex/2.5mm 	R-ØØ2-DU-**XY**-F25**ZZ**	0.13/3.4 x 0.23/5.9	2.6/6.7	1.3/3.4	90/400	27/120	14.0	20.9
Zipcord/2.9mm 	R-ØØ2-ZC-**XY**-F29**ZZ**	0.11/2.9 x 0.23/5.9	2.3/5.8	1.2/3.0	90/400	27/120	11.7	17.4
2 Fiber Interconnect/2.9mm	R-ØØ2-IC-**XY**-F29**ZZ**	0.11/2.9	2.3/5.8	1.2/3.0	70/311	21/93	4.7	7.0
2 Fiber Interconnect 	R-ØØ2-IC-**XY**-FSD**ZZ**	0.16/4.1	3.2/8.1	1.6/4.1	225/1001	68/300	8.6	12.9

Variables in the Catalog Number:

XXX = **Total Fiber Count**

XY = **Fiber Grade**

8W LightScope ZWP™ Dispersion-Unshifted, Matched-Clad Singlemode Fiber

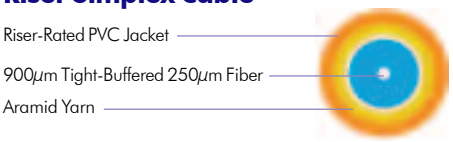
5L LaserCore® 300, 50µm, Multimode Fiber
5H 50µm, Multimode Fiber
5M LaserCore® 150, 50µm, Multimode Fiber
6F 62.5µm, FDDI Grade Multimode Fiber

ZZ = **Standard Jacket Color** **YL** (Yellow - Singlemode Cable)

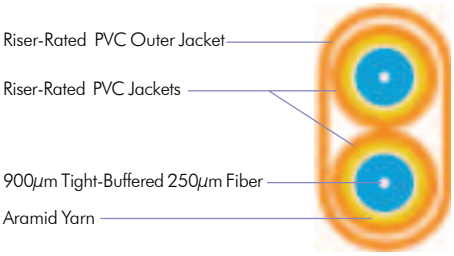
OR (Orange Multimode or Composite Cable)
AQ (Aqua LaserCore®)

Fiber Identification Colors: 1/Blue, 2/Orange

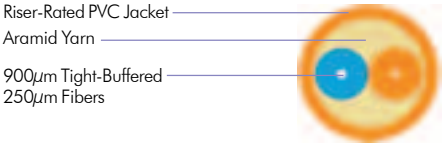
Riser Simplex Cable



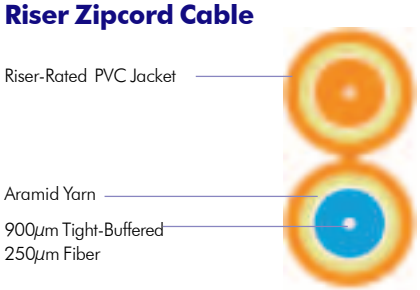
Riser Duplex Cable



Riser 2-Fiber Interconnect Cable



Riser Zipcord Cable



Mechanical Properties

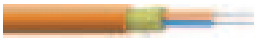
Description	Specification	Test Method
Operating Temperature	-20 to 70°C	FOTP-3
Installation Temperature	0 to 70°C	N/A
Storage Temperature	-40 to 70°C	N/A
Crush Resistance	10 N/mm	FOTP-41
Impact Resistance	25 impacts of 0.74 N.m.	FOTP-25
Flexing	Exceeds	FOTP-104
Twist/Bend	Exceeds	FOTP-85

Specifications are subject to change without notice.

Premise Plenum-Rated Cordage Cable

Several Constructions Available for a Variety of Uses

- Meets critical NEC/CEC plenum (OFNP) safety standards
- Simplex, duplex and zipcord cables available in a variety of sizes
- Heavy-duty simplex and duplex cables help absorb extra handling stresses when using proper installation techniques
- Designed for ease of handling and termination

Cable Type/Unit Size	Catalog Number	Outer Diameter inch/mm	Minimum Bend Radius Loaded inch/cm	Minimum Bend Radius Unloaded inch/cm	Maximum Tensile Load Short term lbs./ Newtons	Maximum Tensile Load Long term lbs./Newtons	Weight lbs/ kft	Weight kg/ km
Simplex/1.6mm 	P-ØØ1-SP-**XY**-F16**ZZ**	0.06/1.6	2.0/5.0	1.2/3.0	35/156	11/47	2.1	3.2
Simplex/2.9mm	P-ØØ1-SP-**XY**-F29**ZZ**	0.11/2.9	2.3/5.8	1.2/3.0	60/267	18/80	6.8	10.1
Duplex/2.5mm 	P-ØØ2-DU-**XY**-F25**ZZ**	0.13/3.4 x 0.23/5.9	2.6/6.7	1.3/3.4	90/400	27/120	14.0	20.9
Zipcord/2.9mm 	P-ØØ2-ZC-**XY**-F29**ZZ**	0.11/2.9 x 0.23/5.9	2.3/5.8	1.2/3.0	90/400	27/120	13.6	20.2
2 Fiber Interconnect/2.9mm	P-ØØ2-IC-**XY**-F29**ZZ**	0.11/2.9	2.3/5.8	1.2/3.0	70/311	21/93	5.8	8.6
2 Fiber Interconnect 	P-ØØ2-IC-**XY**-FSD**ZZ**	0.15/3.9	3.1/7.8	1.5/3.9	225/1001	68/300	8.8	13.1

Variables in the Catalog Number:

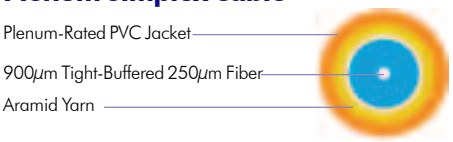
XXX = **Total Fiber Count**
XY = **Fiber Grade**

8W LightScope ZWP™ Dispersion-Unshifted, Matched-Clad Singlemode Fiber
5L LaserCore® 300, 50µm, Multimode Fiber
5H 50µm, Multimode Fiber
5M LaserCore® 150, 50µm, Multimode Fiber
6F 62.5µm, FDDI Grade Multimode Fiber

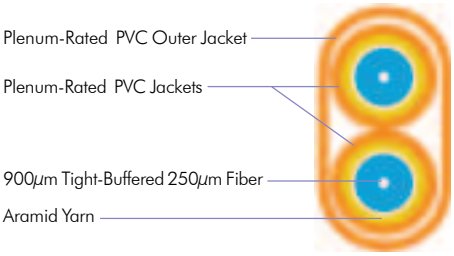
ZZ = **Standard Jacket Color** **YL** (Yellow - Singlemode Cable)
OR (Orange Multimode or Composite Cable)
AQ (Aqua LaserCore®)

Fiber Identification Colors: 1/Blue, 2/Orange

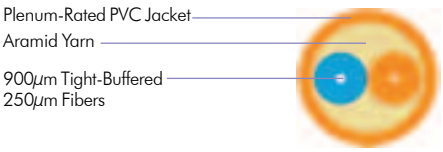
Plenum Simplex Cable



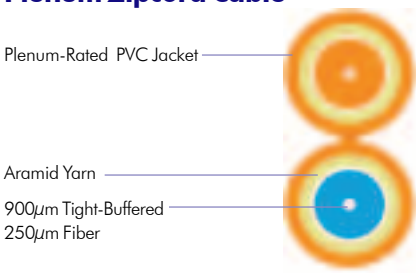
Plenum Duplex Cable



Plenum 2-Fiber Interconnect Cable



Plenum Zipcord Cable



Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-20 to 70°C	FOTP-3
Installation Temperature	0 to 70°C	N/A
Storage Temperature	-40 to 70°C	N/A
Crush Resistance	10 N/mm	FOTP-41
Impact Resistance	25 impacts of 0.74 N.m.	FOTP-25
Flexing	Exceeds	FOTP-104
Twist/Bend	Exceeds	FOTP-85

Specifications are subject to change without notice.

Applications

- These cables are protected with an interlocking armor to shield against damage.
- Used in Local Area Networks, Factory Automation, Critical Data Lines, Video, Robotics, Commercial
- Construction & Renovations, Heavy Industry, High Security Areas, and Indoor/Outdoor applications

Features

- Available in steel or aluminum interlocking armor, with or without overall jacket.
- NEC/CEC compliant
- Outstanding mechanical protection for sensitive cables combined with excellent flexibility.
- Optional armor color coding available.
- Shown with Distribution cables, other cable constructions available.

Premise Fiber Optic Cables, Armored

(NOTE: These specifications are based on aluminum interlocking armor with outer jacket.)

Fiber Count	Catalog Number	Outer Diameter inch/mm	Minimum Bend Radius inch/cm		Maximum Tensile Load lbs./Newtons	Crush Resistance	Weight	
			Loaded	Unloaded			lbs/kft	kg/km
6 Fibers	R-ØØ6-D**Z**-**XY**-FSD**ZZ**	0.57/14.5	11.4/29.0	8.0/20.0	300/1335	85 N/mm	96	142
	P-ØØ6-D**Z**-**XY**-FSD**ZZ**	0.57/14.5	11.4/29.0	8.0/20.0			103	154
12 Fibers 	R-Ø12-D**Z**-**XY**-FSD**ZZ**	0.57/14.5	11.4/29.0	8.0/20.0	300/1335	85 N/mm	99	147
	P-Ø12-D**Z**-**XY**-FSD**ZZ**	0.57/14.5	11.4/29.0	8.0/20.0			109	162
24 Fibers	R-Ø24-D**Z**-**XY**-FSD**ZZ**	0.87/22.1	17.4/44.0	12.2/31.0	300/1335	85 N/mm	251	373
	P-Ø24-D**Z**-**XY**-FSD**ZZ**	0.82/20.8	16.4/42.0	11.5/29.0			221	328
48 Fibers	R-Ø48-D**Z**-**XY**-FSD**ZZ**	0.97/24.6	19.4/49.0	13.6/34.0	300/1335	85 N/mm	277	412
	P-Ø48-D**Z**-**XY**-FSD**ZZ**	0.92/23.4	18.4/47.0	12.9/33.0			295	439
72 Fibers	R-Ø72-D**Z**-**XY**-FSD**ZZ**	1.12/28.4	22.4/57.0	15.7/40.0	300/1335	85 N/mm	388	578
	P-Ø72-D**Z**-**XY**-FSD**ZZ**	1.12/28.4	22.4/57.0	15.7/40.0			431	641
144 Fibers	R-144-D**Z**-**XY**-FSD**ZZ**	1.32/33.5	26.4/67.0	18.5/47.0	300/1335	85 N/mm	523	778
	P-144-D**Z**-**XY**-FSD**ZZ**	1.27/32.3	25.4/65.0	17.8/45.0			553	824

Please call your CommScope Sales Representative for other FiberGuard constructions and cable counts. Specifications subject to change without notice.

Variables in the Catalog Number:

Armor

W (Steel Armor, Color Coded, No Jacket)
Y (Aluminum Armor, Color Coded, No Jacket)
X (Steel Armor with Jacket)
Z (Aluminum Armor with Jacket)

XY = Fiber Grade

8W LightScope ZWP™ Dispersion-Unshifted, Matched-Clad Singlemode Fiber
5L LaserCore® 300, 50µm, Multimode Fiber
5H 50µm, Multimode Fiber
5M LaserCore® 150, 50µm, Multimode Fiber
6F 62.5µm, FDDI Grade Multimode Fiber

ZZ = Standard Jacket Color

YL (Yellow - Singlemode Cable)
AQ (Aqua - LaserCore®)
Minimum order required for special orders.
OR (Orange Multimode or Composite Cable)
BK (Black - Indoor/Outdoor Cable)

Tight Buffer/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

Note: If 2 count cable and part number is D, it is a Duplex Cable. If 4 count or above with part number D, it is a Distribution Cable.

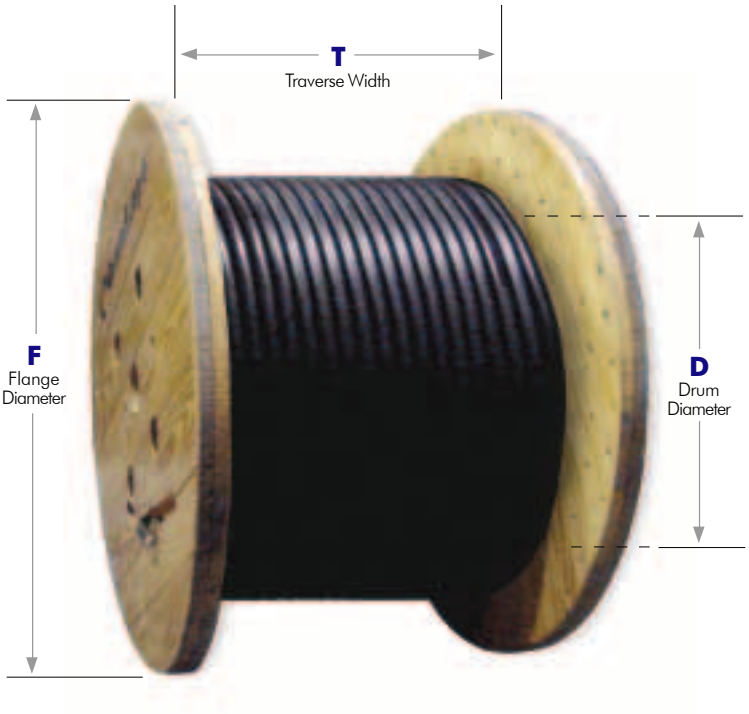
Specifications are subject to change without notice.

Fiber Optic Cable
Packaging and Shipping Information

Packaging and Shipping

Fiber optic cable is packaged for shipment on wooden or composite reels. Each package contains only one continuous length of cable. The packaging is designed to prevent damage to the cable during shipping and handling. Fiber cable reels are protected with a "reel wrap", the highest technology available today. This wrap is stronger, lighter and more environmentally friendly than other methods of lagging. In addition, reel wrap is simple to remove from the reel and readily disposable. All reel sizes between 35 and 78 inches will be blocked and palletized to help ensure safe arrival to the customer. Reels larger than 78 inches are placed on the rolling edge and securely fastened to the trailer during shipment.

Each reel is plainly marked to indicate the direction in which it should be rolled to prevent loosening of the cable on the reel.



Method of Shipment

CommScope's customary method of shipment of fiber optic cable from Claremont, North Carolina to the purchaser's site will vary depending on factors such as the size and number of cable reels, and the destination location. Shipper options include Federal Express, UPS, BAX, LTL motor freight carriers and CommScope's own fleet of trucks, "Cable Transport". Some trucks within CommScope's fleet are equipped with "Cargo Master" equipment for ease in unloading cable reels on location where no loading dock is available. CommScope has red arm Cargo Masters, which can lift anything 2,500 pounds or less. CommScope also has white arm Cargo Masters which will lift anything up to 8,000 pounds that is on an 84" reel or smaller. These specially equipped trucks are available by request.

International Packaging

Products shipped outside the continental United States are protected with reel wrap, lagged with wood, and blocked and palletized (for reel sizes between 35 and 78 inches) or placed on the rolling edge and securely fastened to international shipping containers.

Outside Plant Stranded Loose Tube Armored (LA) Cables

Arid or Flooded Core

Flange x Drum x Traverse	Reel Weight (lbs)	2-60F 5@1	62-72F 6@1	74-96F 8@1	98-120F 10@1	122-144F 12@1	146-216F 12@6@1	218-288F 15@9@1
36 x 22 x 29.75	66	3,304	3,149	2,461	1,896	1,439	1,439	1,304
42 x 29 x 29.75	88	6,202	5,440	4,063	3,318	2,705	2,705	2,164
48 x 22 x 32.5	176	9,895	8,767	6,997	5,497	4,578	4,578	3,471
54 x 24 x 28	370	11,565	9,857	7,893	6,420	5,051	5,051	3,869
60 x 30 x 32	433	15,332	13,191	10,525	8,475	6,771	6,771	5,129
66 x 30 x 32	506	19,732	18,192	13,424	11,087	9,129	9,129	6,648
72 x 36 x 36	627	25,071	22,852	17,135	14,032	11,682	11,682	8,442
78 x 36 x 36	758	32,217	28,464	22,057	17,548	14,083	14,083	10,486
84 x 40 x 40	913	39,812	35,486	27,566	22,330	17,491	17,491	13,317
84 x 40 x 42	922	42,055	37,605	28,968	23,172	18,607	18,607	14,292
88 x 40 x 40	958	45,892	41,237	31,350	25,752	20,510	20,510	15,957
96 x 44 x 46	984	64,185	55,905	43,273	34,430	28,148	28,148	22,168

All Units in Feet *2"Flange Clearance*

Outside Plant Stranded Loose Tube Non-Armored (LN) Cables

Arid or Flooded Core

Flange x Drum x Traverse	Reel Weight (lbs)	2-60F 5@1	62-72F 6@1	74-96F 8@1	98-120F 10@1	122-144F 12@1	146-216F 12@6@1	218-288F 15@9@1
36 x 22 x 29.75	66	4,655	3,921	3,038	2,416	1,855	1,855	1,371
42 x 29 x 29.75	88	7,985	7,015	5,261	3,997	3,252	3,252	2,264
48 x 22 x 32.5	176	12,864	10,913	8,685	6,369	5,411	5,411	4,003
54 x 24 x 28	370	14,584	12,713	9,741	7,246	5,824	5,824	4,437
60 x 30 x 32	433	19,382	16,748	12,809	9,706	7,728	7,728	5,834
66 x 30 x 32	506	25,328	22,307	16,838	13,258	10,243	10,243	7,441
72 x 36 x 36	627	32,226	28,593	21,606	16,947	13,009	13,009	9,635
78 x 36 x 36	758	40,265	36,209	27,110	20,824	16,417	16,417	12,595
84 x 40 x 40	913	51,316	44,394	33,388	25,671	20,586	20,586	15,779
84 x 40 x 42	922	54,523	46,762	35,443	27,022	21,797	21,797	16,855
88 x 40 x 40	958	58,185	50,805	38,966	29,315	23,858	23,858	17,664
96 x 44 x 46	984	N/A	70,947	53,181	40,797	33,577	33,577	24,195

All Units in Feet *2" Flange Clearance*

Reel Weights subject to change without notice.

Fiber Optic Cable
Packaging and Shipping Information

Outside Plant Central Tube (CA, CS, CP) Cables

Flange x Drum x Traverse	Reel Weight (lbs)	CA 2-24F	CA 26-48F	CA 50-96F	CS 2-24F	CP 1-72F
35 x 16.5 x 18 (Composite Reel)	60	4,361	3,320	2,342	3,666	7,080
36 x 22 x 29.75	66	5,787	4,586	3,096	4,780	9,143
42 x 24 x 24 (Composite Reel)	94	7,684	5,841	4,144	6,525	12,555
42 x 29 x 29.75	88	10,189	7,873	5,357	8,177	16,301
48 x 22 x 32.5	176	16,903	12,907	8,657	14,087	20,000
54 x 24 x 28	370	19,418	14,636	9,708	15,680	N/A
60 x 30 x 32	433	25,710	19,441	13,017	21,059	N/A
66 x 30 x 32	506	33,716	25,417	17,103	27,279	N/A
72 x 36 x 36	627	43,287	32,326	21,541	34,542	N/A
78 x 36 x 36	758	54,218	40,404	27,018	42,885	N/A
84 x 40 x 40	913	68,250	51,488	35,170	54,354	N/A
84 x 40 x 42	922	N/A	54,062	36,769	57,628	N/A
88 x 40 x 40	958	N/A	58,392	39,428	63,260	N/A
96 x 44 x 46	984	N/A	N/A	53,704	N/A	N/A

All Units in Feet 2" Flange Clearance

Outside Plant and Indoor/Outdoor Central Tube Non-Armored (CN, R CN) Cables

Flange x Drum x Traverse	Reel Weight (lbs)	R CN 2-24F	CN 2-24F	CN 26-48F	CN 50-96F
35 x 16.5 x 18 (Composite Reel)	60	4,278	4,842	3,245	2,404
36 x 22 x 29.75	66	5,720	6,667	4,035	3,145
42 x 24 x 24 (Composite Reel)	94	7,575	8,578	5,742	4,226
42 x 29 x 29.75	88	10,084	11,336	7,196	5,430
48 x 22 x 32.5	176	16,547	19,282	11,854	8,909
54 x 24 x 28	370	18,390	21,994	13,740	10,447
60 x 30 x 32	433	24,416	29,277	18,020	13,954
66 x 30 x 32	506	32,262	37,821	23,762	18,149
72 x 36 x 36	627	41,005	48,201	30,347	23,185
78 x 36 x 36	758	51,632	61,447	38,159	28,871
84 x 40 x 40	913	67,881	77,427	48,855	37,359
84 x 40 x 42	922	70,832	N/A	51,361	39,007
88 x 40 x 40	958	N/A	N/A	55,567	41,752
96 x 44 x 46	984	N/A	N/A	76,766	56,497

All Units in Feet 2" Flange Clearance

Reel Weights subject to change without notice.

Outside Plant Double Jacketed Single Armored (L2); Triple Jacketed Double Armored (L3); Figure-8 Armored (M LA) and Non-Armored (M LN) Cables

Flange x Drum x Traverse	Reel Weight (lbs)	L2 2-72F	L2 74-96F	L3 2-72F	M LA 2-72F	M LN 2-72F
36 x 22 x 29.75	66	2,456	1,892	1,774	929	1,230
42 x 29 x 29.75	88	4,489	3,309	2,766	1,669	2,049
48 x 22 x 32.5	176	6,973	5,479	4,661	2,828	3,316
54 x 24 x 28	370	8,056	6,396	5,161	3,263	3,796
60 x 30 x 32	433	10,715	8,448	6,900	4,232	5,042
66 x 30 x 32	506	14,439	11,047	9,292	5,127	6,549
72 x 36 x 36	627	18,364	14,284	11,866	6,612	8,329
78 x 36 x 36	758	22,393	17,856	15,141	8,435	10,364
84 x 40 x 40	913	29,193	22,252	19,109	10,916	13,190
84 x 40 x 42	922	30,652	23,511	19,889	11,507	13,850
88 x 40 x 40	958	33,083	25,656	21,203	12,502	14,928
96 x 44 x 46	984	45,409	35,769	29,760	17,097	20,466

All Units in Feet *2" Flange Clearance*

Indoor/Outdoor Stranded Loose Tube Non-Armored (R LN, P LN) Cables

Flange x Drum x Traverse	Reel Weight (lbs)	2-60F 5@1	62-72F 6@1	74-96F 8@1	98-120F 10@1	122-144F 12@1
36 x 22 x 29.75	66	3,859	3,200	2,508	1,938	1,776
42 x 29 x 29.75	88	6,910	5,519	4,579	3,385	2,768
48 x 22 x 32.5	176	10,773	9,031	7,094	5,462	4,667
54 x 24 x 28	370	12,522	10,618	8,027	6,375	5,168
60 x 30 x 32	433	16,804	14,154	10,682	8,625	6,908
66 x 30 x 32	506	22,395	18,398	14,386	11,273	9,304
72 x 36 x 36	627	28,270	23,466	18,305	14,243	11,609
78 x 36 x 36	758	34,513	29,208	22,313	17,798	14,816
84 x 40 x 40	913	44,560	37,736	29,090	23,732	18,742
84 x 40 x 42	922	46,342	39,377	30,545	24,611	19,913
88 x 40 x 40	958	51,088	42,163	32,960	26,054	20,797
96 x 44 x 46	984	70,411	58,842	45,241	36,235	29,799

All Units in Feet *2" Flange Clearance*

Reel Weights subject to change without notice.

Fiber Optic Cable
Packaging and Shipping Information

Plenum-Rated Distribution (P DS) Cables

Fiber	18x12x12 FT	22x12x12 FT	30x12x12 FT	35x16.5x18 FT	36x22x29.75 FT	42x24x24 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT	72x36x36 FT	78x36x36 FT	84x40x40 FT	88x40x40 FT
4	1,337	4,371	12,696	25,439	32,488	44,541	58,160	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6	1,282	3,919	11,497	22,765	29,707	40,164	52,650	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8	958	3,344	9,604	18,412	23,770	32,528	43,160	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12	N/A	2,941	8,514	16,473	21,818	29,230	39,126	64,770	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	2,058	3,823	4,903	6,731	8,994	14,329	16,800	22,463	28,856	36,908	47,051	N/A	N/A
24	N/A	N/A	1,571	3,249	4,038	5,747	7,203	11,869	13,508	18,041	23,794	30,383	38,211	48,919	N/A
36	N/A	N/A	1,384	2,845	3,868	5,003	6,385	10,820	12,337	16,589	21,158	26,779	34,150	44,156	N/A
48	N/A	N/A	1,169	2,420	3,094	4,247	5,352	8,810	9,697	13,004	17,083	21,884	27,445	35,131	39,382
60	N/A	N/A	N/A	1,745	2,410	3,104	3,982	6,878	7,926	10,562	13,478	16,872	20,721	27,204	30,947
72	N/A	N/A	N/A	1,461	1,894	2,576	3,313	5,488	6,408	8,461	11,067	14,307	17,888	22,291	25,704
96	N/A	N/A	N/A	1,117	1,374	1,911	2,270	4,019	4,456	5,855	7,472	9,670	12,648	15,844	17,740
144	N/A	N/A	N/A	N/A	1,303	1,605	2,162	3,466	3,864	5,122	6,639	8,431	11,188	14,502	16,322

Riser-Rated Distribution (R DS) Cables

Fiber	18x12x12 FT	22x12x12 FT	30x12x12 FT	35x16.5x18 FT	36x22x29.75 FT	42x24x24 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT	72x36x36 FT	78x36x36 FT	84x40x40 FT	88x40x40 FT
4	1,282	3,919	11,497	22,765	29,707	40,164	52,650	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6	1,225	3,770	10,744	20,662	27,200	36,267	47,658	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8	N/A	2,941	8,514	16,473	21,818	29,230	39,126	64,770	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12	N/A	2,857	7,976	15,441	19,934	27,123	35,248	58,135	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	1,791	3,322	4,588	5,843	7,878	12,916	14,646	19,453	25,434	32,346	40,432	N/A	N/A
24	N/A	N/A	1,329	2,774	3,810	4,909	6,298	10,704	11,514	15,543	20,932	26,521	32,579	41,707	N/A
36	N/A	N/A	1,338	2,529	3,307	4,391	6,211	9,912	11,586	15,357	19,768	25,111	31,036	39,882	N/A
48	N/A	N/A	1,123	2,125	2,986	3,679	4,709	7,974	9,005	11,888	15,795	20,332	25,701	33,087	37,217
60	N/A	N/A	N/A	1,692	2,366	3,035	3,919	6,262	7,282	9,536	12,302	15,784	20,524	25,792	29,463
72	N/A	N/A	N/A	1,411	1,854	2,510	3,250	5,407	5,819	7,722	10,234	12,999	16,402	20,568	23,836
96	N/A	N/A	N/A	N/A	1,337	1,658	2,214	3,532	4,345	5,725	7,313	9,491	11,664	14,691	16,524
144	N/A	N/A	N/A	N/A	1,230	1,558	2,050	3,318	3,797	5,043	6,551	8,332	10,367	13,195	14,933

LSZH Distribution (Z DS)Cables

Fiber	18x12x12 FT	22x12x12 FT	30x12x12 FT	35x16.5x18 FT	36x22x29.75 FT	42x24x24 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT	72x36x36 FT	78x36x36 FT	84x40x40 FT	88x40x40 FT
4	1,282	3,919	11,497	22,765	29,707	40,164	52,650	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6	1,225	3,770	10,744	20,662	27,200	36,267	47,658	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8	N/A	2,857	7,976	15,441	19,934	27,123	35,248	58,135	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12	N/A	2,147	6,100	11,896	16,081	20,920	27,571	46,324	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	1,384	2,845	3,868	5,003	6,385	10,820	12,337	16,589	21,158	26,779	34,150	44,156	N/A
24	N/A	N/A	1,162	2,408	3,148	4,231	5,437	8,924	10,466	13,975	23,221	28,922	35,467	41,212	N/A
36	N/A	N/A	N/A	1,796	2,509	3,172	4,582	7,101	8,036	10,691	14,401	18,322	22,336	29,119	32,995
48	N/A	N/A	N/A	1,450	1,934	2,561	3,375	6,073	6,520	8,594	11,227	14,486	19,043	23,636	27,128
60	N/A	N/A	N/A	1,141	1,776	2,088	2,769	4,669	5,170	6,910	9,308	11,613	14,822	18,749	20,805
72	N/A	N/A	N/A	N/A	1,335	1,654	2,208	3,921	4,328	5,874	7,500	9,459	11,621	14,639	17,404

Reel Weights (lbs.)

	18x12x12 FT	22x12x12 FT	30x12x12 FT	35x16.5x18 FT	36x22x29.75 FT	42x24x24 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT	72x36x36 FT	78x36x36 FT	84x40x40 FT	88x40x40 FT
	8.5	12	18	70	66	109	102	176	370	433	506	627	758	913	958

Reel Weights subject to change without notice.

Riser, Plenum and LSZH* Simplex (SP) Cables

Fiber	Size	18x12x12 FT	22x12x12 FT	30x12x12 FT	35x16.5x18 FT	36x22x29.75 FT
1	1.6	11,536	40,055	N/A	N/A	N/A
1	1.8	8,716	28,760	85,909	N/A	N/A
1	2.0	6,616	22,324	65,521	N/A	N/A
1	2.5	4,492	14,608	42,380	81,529	N/A
1	2.9	3,707	11,961	34,572	66,609	87,629

** LSZH is only for the 2.5 and 2.9 cables.*

Riser, Plenum and LSZH* Zipcord (ZC) Cables

Fiber	Size	18x12x12 FT	22x12x12 FT	30x12x12 FT	35x16.5x18 FT	36x22x29.75 FT
2	1.6	5,307	18,425	53,430	N/A	N/A
2	1.8	4,078	13,455	40,192	77,467	N/A
2	2.5	2,246	7,304	21,190	40,765	53,354
2	2.9	1,768	5,706	16,493	31,874	41,867

** LSZH is only for the 2.5 and 2.9 cables.*

Riser, Plenum and LSZH* Duplex (DU) Cables

Fiber	Size	18x12x12 FT	22x12x12 FT	30x12x12 FT	35x16.5x18 FT	36x22x29.75 FT	42x24x24 FT	42x22x29.75 FT
2	2.5	1,406	4,898	13,887	27,045	35,483	47,495	N/A
2	2.9	1,087	3,793	10,698	20,978	27,347	36,822	48,269

** LSZH is only for the 2.5 the cable*

Riser, Plenum and LSZH* Interconnect (IC) Cables

Fiber	Size	18x12x12 FT	22x12x12 FT	30x12x12 FT	35x16.5x18 FT	36x22x29.75 FT	42x24x24 FT	42x22x29.75 FT
2	2.9	Riser & Plenum	3,707	11,961	34,572	66,609	N/A	N/A
2	SD	Plenum & LSZH	1,891	6,597	18,605	36,483	47,498	N/A
2	SD	Riser	1,781	5,551	16,311	31,966	41,784	56,360

All reels calculated using 2" flange clearance

Reel Weights (lbs.)

	18x12x12 FT	22x12x12 FT	30x12x12 FT	35x16.5x18 FT	36x22x29.75 FT	42x24x24 FT	42x22x29.75 FT
	8.5	12	18	70	66	109	102

Reel Weights subject to change without notice.