

- Fiber Optic Cable Products**
- > OSP Cables
  - > Premise Cables
  - > Indoor/Outdoor Cables
  - > Hybrid Cables

# FIBER OPTIC CABLE PRODUCTS

**Fiber Optic Cable**

Fiber Optic Cable Overview .....	34
Fiber Optic Catalog Numbering Key .....	35
Singlemode Fiber Specifications .....	36-37
Multimode Fiber Specifications .....	38-41
Outside Plant Cables	
Arid-Core® Stranded Loose Tube Armored .....	43
Arid-Core® Stranded Loose Tube All-Dielectric .....	44
High Density Stranded Loose Tube .....	45
Mini-Diameter Loose Tube .....	46
Multi-Jacket Stranded Loose Tube .....	47-49
Self-Supporting Figure-8 .....	50-51
ADSS FTTH Loose Tube .....	52-54
Central Tube .....	55
Pavement Cable .....	56
Drop Cable .....	57-58
Self-Supporting Drop .....	59
Self Supporting Figure-8 Mini-Drop .....	60-61
Flat Drop .....	62
ConQuest Fiber Optic Products .....	63-64
Hybrid Cables .....	65
Indoor/Outdoor Cables	
Riser-Rated Triathlon® LSZH Distribution .....	75
Riser-Rated Triathlon® LSZH Cordage .....	76
Riser-Rated Stranded Loose Tube .....	77
Plenum-Rated Stranded Loose Tube .....	78
Riser-Rated Central Tube .....	79
Premise Cables	
Riser-Rated Distribution .....	81
Plenum-Rated Distribution .....	82
Riser-Rated Cordage .....	83
Plenum-Rated Cordage .....	84
Packaging and Shipping Information .....	85

## 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)

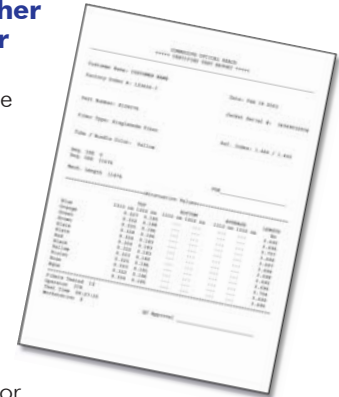
CommScope's design for these hybrid application cables offer construction and jacketing suitable for outside usage yet comply with UL and CSA riser (OFNR) or plenum (OFNP) flame standards. This design allows you to run cable through the building entrance without having to terminate and splice different 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](mailto: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!



**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
- DN ..... Drop Non-Armored, All-Dielectric
- MN ..... Mini-Drop Non-Armored, All-Dielectric
- 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      IC ..... Interconnect
- SP ..... Simplex            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
- 5M ..... LaserCore® 150, 50µm, Multimode Fiber
- 5L ..... LaserCore® 300, 50µm, Multimode Fiber
- 5K ..... LaserCore® 500, 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 count per subunit:
  - 01-12 ..... Fiber Count Per Subunit
- For indoor distribution cables, this value indicates additional information pertaining to the cable construction:
  - SU ..... Single Unit Construction
  - MU ..... Multi-Unit 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)	WH ..... White
BL ..... Blue	YL ..... Yellow
OR ..... Orange	VI ..... Violet
GR ..... Green	
- For indoor/outdoor cables, this field designates the jacket color:
  - BK ..... Black
- For indoor cables, this field designates jacket color:
  - OR ..... Orange - multimode and composite cables
  - YL ..... Yellow - singlemode cables
  - AQ ..... Aqua - LaserCore® cables

*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 - 18 are required.

**Position 14** denotes NESC loading conditions. (L = Light, M - 18 (18 as needed) maximum span length (ft))

When ordering the non-armored drop cables, positions 13 - 15 will denote the tube size (Example: 30T - 3.0mm Tube)

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

### 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, maximum	12 μm
Clad Non-Circularity	≤ 1%

#### Mechanical Characteristics

Proof Test	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	
1310/1550 nm	0.05 dB maximum
Macrobend 100 turns @ 60mm mandrel	
1625nm	0.05 dB maximum
Macrobend 1 turn @ 32mm mandrel	
1550 nm	0.05 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	0.090 ps/(km-nm-nm)
Polarization Mode Dispersion Link Design Value	≤ 0.06 ps/sqrt(km)

#### Environmental Characteristics

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

Specifications are subject to change without notice.

## Non-Zero Dispersion Shifted Singlemode Fiber

### Physical Characteristics

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

### Mechanical Characteristics

Proofstress	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 - 1625 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	$62.5 \pm 2.5 \mu\text{m}$
Cladding Diameter	$125 \pm 1.0 \mu\text{m}$
Core/Clad Offset	$\leq 1.5 \mu\text{m}$
Coating Diameter (uncolored)	$245 \pm 10 \mu\text{m}$
Coating Diameter (colored)	$254 \pm 7 \mu\text{m}$
Coating/Cladding Concentricity Error, maximum	$6 \mu\text{m}$
Clad Non-Circularity	$\leq 1\%$

### Mechanical Characteristics

Proofstest	100 kpsi (.69 Gpa)
Coating Strip Force	0.3 - 2.0 lbf (1.3 - 8.9 N)
Dynamic Fatigue Parameter	$\geq 18 \text{ nd}$
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	$0.275 \pm 0.015$
Point Defects, maximum	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	$\leq 0.20 \text{ dB}$
Temperature Humidity Cycling -10°C to 85°C up to 95% RH	$\leq 0.20 \text{ dB}$
Water Immersion, 23 + 2°C	$\leq 0.20 \text{ dB}$
Heat Aging, 85 + 2°C	$\leq 0.20 \text{ dB}$

Specifications are subject to change without notice.

### 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, maximum	6 μm
Clad Non-Circularity	≤ 1%

Mechanical Characteristics	
Proofstress	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, maximum	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, maximum	6 μm
Clad Non-Circularity	≤ 1%

#### Mechanical Characteristics

Proofstest	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 (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, maximum	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 500, 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, maximum	6 μm
Clad Non-Circularity	≤ 1%

Mechanical Characteristics	
Proofstress	100 kpsi (.69 Gpa)
Coating Strip Force	0.3 - 2.0 lbf (1.3 - 8.9 N)
Dynamic Fatigue Parameter	≥ 18
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	3000 MHz - km
1300 nm	500 MHz - km
Bandwidth, Laser	
850 nm	4000 MHz - km
1300 nm	500 MHz - km
Differential Mode Delay	
850 nm	per TIA-492AAAC-A
1300 nm	0.88 ps/m
Group Refractive Index	
850 nm	1.483
1300 nm	1.479
1 GB Ethernet Distance	
850 nm	1040 m
1300 nm	600 m
10 GB Ethernet Distance*	
850 nm	500 m

Optical Characteristics, General	
Numerical Aperature	0.200 ± 0.015
Point Defects, maximum	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 - a small, lightweight Central Tube cable designed for use when space is at a minimum; features a robust 3mm central tube and is available 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	Unloaded inch/cm	Maximum Tensile Load Short Term lbs/newtons	Long Term lbs/newtons	Weight lbs/ kft	kg/ km
<b>Single Jacket/ Single Armor 2 - 60 Fibers</b>	O- <b>XXX</b> -LA- <b>XY</b> -F12NS	5	0.51/13.1	10.3/26.2	5.1/13.1	607/2700	180/800	102	152
<b>62 - 72 Fibers</b>	O- <b>XXX</b> -LA- <b>XY</b> -F12NS	6	0.55/14.0	11.0/28.0	5.5/14.0	607/2700	180/800	119	177
<b>74 - 96 Fibers</b>	O- <b>XXX</b> -LA- <b>XY</b> -F12NS	8	0.63/16.1	12.6/32.2	6.3/16.1	607/2700	180/800	148	220
<b>98 - 120 Fibers</b>	O- <b>XXX</b> -LA- <b>XY</b> -F12NS	10	0.71/18.2	14.3/36.4	7.1/18.2	607/2700	180/800	178	266
<b>122 - 144 Fibers</b>	O- <b>XXX</b> -LA- <b>XY</b> -F12NS	12	0.80/20.3	15.9/40.6	8.0/20.3	607/2700	180/800	214	319
<b>146 - 216 Fibers</b>	O- <b>XXX</b> -LA- <b>XY</b> -F12NS	18	0.80/20.3	15.9/40.6	8.0/20.3	607/2700	180/800	211	315
<b>218 - 288 Fibers</b>	O- <b>XXX</b> -LA- <b>XY</b> -F12NS	24	0.91/23.3	18.3/46.6	9.1/23.3	607/2700	180/800	267	398
<b>Singlemode/Multimode Composite (4-288 Fibers)</b>	O- <b>XXX</b> -LA- <b>CM</b> -F12NS/ <b>AA</b> <b>aaa</b> / <b>BB</b> <b>bbb</b>	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

**6F** 62.5µm, FDDI Grade Multimode Fiber

**5M** LaserCore® 150, 50µm, Multimode Fiber

**5L** LaserCore® 300, 50µm, Multimode Fiber

**5K** LaserCore® 500, 50µm, Multimode Fiber

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

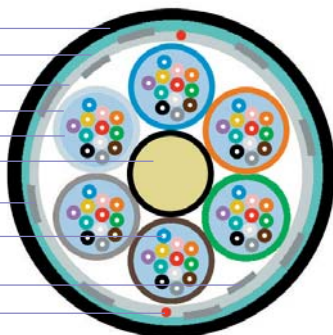
**bbb** is replaced by multimode fiber count  
**BB** is replaced by multimode type

**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)

- PE Outer Jacket
- Steel Tape Armoring
- Water Swellable Tape
- 3.0 mm Gel Filled Buffer Tubes
- Water Blocking Gel
- Dielectric Strength Member
- Strength Elements
- 250 Micron Fiber
- Binder
- Ripcord (2)



### Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40° to 158°F (-40° to 70°C)	FOTP-3
Installation Temperature	-22° to 140°F (-30° to 60°C)	N/A
Storage Temperature	-40° to 167°F (-40° to 75°C)	N/A
Crush Resistance	250 lbf/in (44 N/mm)	FOTP-41
Impact Resistance	Exceeds	FOTP-25
Flexing	25 Cycles	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.

ANSI/ICEA S-87-640-1999 Standard for Optical Fiber Outside Plant Communications Cable

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
<b>Single Jacket/ 2 - 60 Fibers</b>	O-XXX-LN-XY-F12NS	5	0.46/11.6	9.1/23.2	4.6/11.6	607/2700	180/800	64	96
<b>62 - 72 Fibers</b>	O-XXX-LN-XY-F12NS	6	0.49/12.6	9.9/25.2	4.9/12.6	607/2700	180/800	78	116
<b>74 - 96 Fibers</b>	O-XXX-LN-XY-F12NS	8	0.57/14.6	11.5/29.2	5.7/14.6	607/2700	180/800	101	151
<b>98 - 120 Fibers</b>	O-XXX-LN-XY-F12NS	10	0.66/16.7	13.1/33.4	6.6/16.7	607/2700	180/800	125	187
<b>122 - 144 Fibers</b>	O-XXX-LN-XY-F12NS	12	0.74/18.8	14.8/37.6	7.4/18.8	607/2700	180/800	153	228
<b>146 - 216 Fibers</b>	O-XXX-LN-XY-F12NS	18	0.74/18.8	14.8/37.6	7.4/18.8	607/2700	180/800	150	224
<b>218 - 288 Fibers</b>	O-XXX-LN-XY-F12NS	24	0.86/21.8	17.1/43.6	8.6/21.8	607/2700	180/800	197	294
<b>Singlemode/Multimode Composite (4-288 Fibers)</b>	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

**6F** 62.5µm, FDDI Grade Multimode Fiber  
**5M** LaserCore® 150, 50µm, Multimode Fiber  
**5L** LaserCore® 300, 50µm, Multimode Fiber  
**5K** LaserCore® 500, 50µm, Multimode Fiber

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

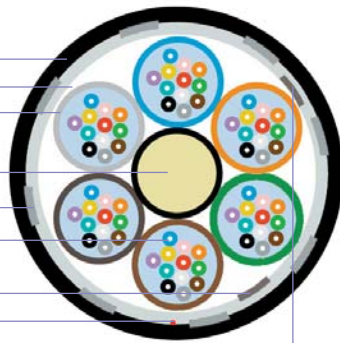
**bbb** is replaced by multimode fiber count  
**BB** is replaced by multimode type

**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)

- PE Outer Jacket
- Water Swellable Tape
- 3.0 mm Buffer Tubes
- Dielectric Strength Member
- Strength Elements
- 250 Micron Fibers
- Binder
- Ripcord (1)
- Binder



## Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40° to 158°F (-40° to 70°C)	FOTP-3
Installation Temperature	-22° to 140°F (-30° to 60°C)	N/A
Storage Temperature	-40° to 167°F (-40° to 75°C)	N/A
Crush Resistance	250 lbf/in (44 N/mm)	FOTP-41
Impact Resistance	Exceeds	FOTP-25
Flexing	25 Cycles	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.

ANSI/ICEA S-87-640-1999 Standard for Optical Fiber Outside Plant Communications Cable

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	Subunits	Outer Diameter inch/mm	Minimum Bend Radius		Maximum Tensile Load		Weight	
				Loaded inch/cm	Unloaded inch/cm	Short Term lbs/newtons	Long Term lbs/newtons	lbs/ kft	kg/ km
<b>Armored 300-432 Fibers</b>	O- <b>XXX</b> -LA- <b>XY</b> -F24NS	18	0.90/23.0	18.1/46.0	9.0/23.0	607/2700	180/800	268	399
<b>All Dielectric 300-432 Fibers</b>	O- <b>XXX</b> -LN- <b>XY</b> -F24NS	18	0.84/21.5	16.9/43.0	8.4/21.5	607/2700	180/800	192	286

\*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

**6F** 62.5µm, FDDI Grade Multimode Fiber

**5M** LaserCore™ 150, 50µm, Multimode Fiber

**5L** LaserCore™ 300, 50µm, Multimode Fiber

**5K** LaserCore™ 500, 50µm, Multimode Fiber

#### For Composites Only:

**aaa** is replaced with singlemode fiber count

**AA** is replaced with singlemode type

**bbb** is replaced by multimode fiber count

**BB** is replaced by multimode type

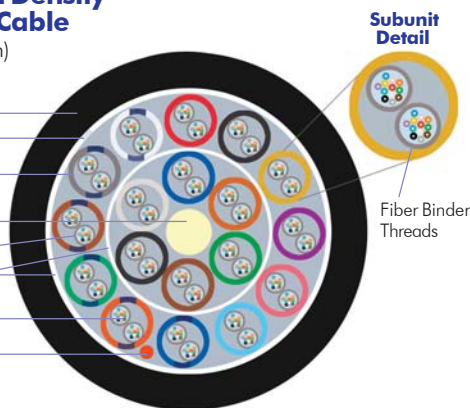
**Buffer Tubes/Fiber identification colors:** 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

**Buffer Tubes 13-18 repeat color sequence with tracer stripe**

### All-Dielectric High Density Loose Tube Fiber Cable

(432 Fiber Version Shown)

- PE Outer Jacket
- Strength Elements
- 3.5 mm Gel Filled Buffer Tube
- Dielectric Strength Member
- Fiber Binder Threads
- Water Swellable Tape
- 250 Micron Optical Fibers
- Ripcord (1)



### Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40° to 158°F (-40° to 70°C)	FOTP-3
Installation Temperature	-22° to 140°F (-30° to 60°C)	N/A
Storage Temperature	-40° to 167°F (-40° to 75°C)	N/A
Crust Resistance	250 lbf/in (44 N/mm)	FOTP-41
Impact Resistance	Exceeds	FOTP-25
Flexing	25 Cycles	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.

ANSI/ICEA S-87-640-1999 Standard for Optical Fiber Outside Plant Communications Cable

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
<b>Single Jacket 2 - 72 Fibers</b>	O- <b>XXX</b> -LN- <b>XY</b> -F12NS/MD	6	0.30/7.5	12/300	6.0/15.0	300/1335	90/400	34	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

**6F** 62.5µm, FDDI Grade Multimode Fiber  
**5M** LaserCore® 150, 50µm, Multimode Fiber  
**5L** LaserCore® 300, 50µm, Multimode Fiber  
**5K** LaserCore® 500, 50µm, Multimode Fiber

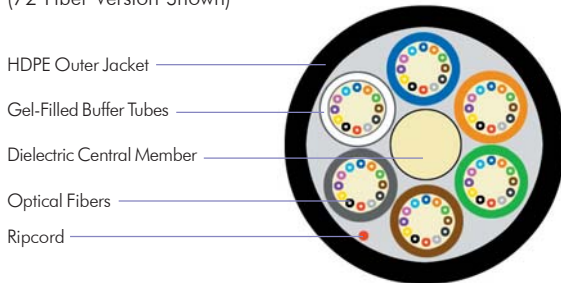
**For Composites Only:** **aaa** is replaced with singlemode fiber count  
**AA** is replaced with singlemode type

**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 158°F (-40° to 70°C)	FOTP-3
Installation Temperature	5° to 140°F (-15° to 60°C)	N/A
Storage Temperature	-40° to 158°F (-40° to 70°C)	N/A
Crush Resistance	125lbf/in (220 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.


# Multi-Jacketed Stranded Loose Tube Cable

## Double Jacketed, Single Armored



### Jacket/Armor Combinations for Buried/Underground/Aerial Applications

- Double armor cable provides additional crush and mechanical protection for areas with severe rodent and lightning 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
- Rural Utilities Service (RUS) listed

Product Type/ Fiber Count	Catalog Number	Sub Units	Outer Diameter inch/mm	Minimum Bend Radius		Maximum Tensile Load		Weight	
				Loaded inch/cm	Unloaded inch/cm	Short Term lbs/meters	Long Term	lbs/ kft	kg/ km
<b>Double Jacket/ Single Armor 2 - 60 Fibers</b> 	O-XXX-L2-XY-F12NS	5	0.64/16.2	12.7/32.4	6.4/16.2	607/2700	180/800	152	226
<b>62 - 72 Fibers</b>	O-XXX-L2-XY-F12NS	6	0.67/17.1	13.4/34.2	6.7/17.1	607/2700	180/800	172	257
<b>74 - 96 Fibers</b>	O-XXX-L2-XY-F12NS	8	0.75/19.2	15.1/38.4	7.5/19.2	607/2700	180/800	207	309
<b>98 - 120 Fibers</b>	O-XXX-L2-XY-F12NS	10	0.84/21.3	16.7/42.6	8.4/21.3	607/2700	180/800	245	365
<b>122 - 144 Fibers</b>	O-XXX-L2-XY-F12NS	12	0.92/23.4	18.4/46.8	9.2/23.4	607/2700	180/800	284	424
<b>146 - 216 Fibers</b>	O-XXX-L2-XY-F12NS	18	0.92/23.4	18.4/46.8	9.2/23.4	607/2700	180/800	282	421
<b>218 - 288 Fibers</b>	O-XXX-L2-XY-F12NS	24	1.04/26.4	20.7/52.8	10.4/26.4	607/2700	180/800	345	515
<b>Singlemode/Multimode Composite (4-288 Fibers)</b>	O-XXX-L2-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

**6F** 62.5µm, FDDI Grade Multimode Fiber  
**5M** LaserCore™ 150, 50µm, Multimode Fiber  
**5L** LaserCore™ 300, 50µm, Multimode Fiber  
**5K** LaserCore™ 500, 50µm, Multimode Fiber

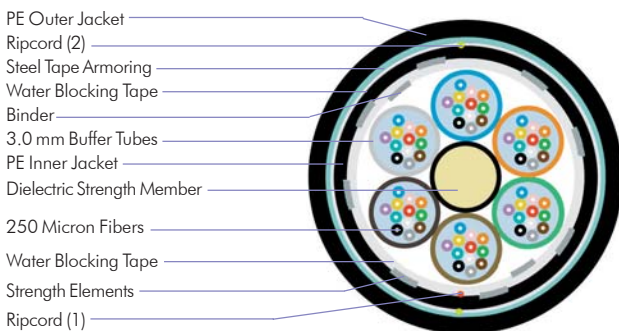
**For Composites Only:** aaa is replaced with singlemode fiber count  
AA is replaced with singlemode type

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)



### Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40° to 158°F (-40° to 70°C)	FOTP-3
Installation Temperature	-22° to 140°F (-30° to 60°C)	N/A
Storage Temperature	-40° to 167°F (-40° to 75°C)	N/A
Crush Resistance	250 lbf/in (44 N/mm)	FOTP-41
Impact Resistance	Exceeds	FOTP-25
Flexing	25 Cycles	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.

ANSI/ICEA S-87-640-1999 Standard for Optical Fiber Outside Plant Communications Cable

Specifications are subject to change without notice.




# Multi-Jacketed Stranded Loose Tube Cable

## Triple Jacketed, Double Armored



### Jacket/Armor Combinations for Buried/Underground/Aerial Applications

- Double armor cable provides additional crush and mechanical protection for areas with severe rodent and lightning 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

Product Type/ Fiber Count	Catalog Number	Sub Units	Outer Diameter inch/mm	Minimum Bend Radius		Maximum Tensile Load		Weight	
				Loaded inch/cm	Unloaded inch/cm	Short Term lbs/meters	Long Term	lbs/ kft	kg/ km
<b>Triple Jacket/ Double-Armor 2 - 60 Fibers</b> 	O-XXX-L3-XY-F12NS	5	0.81/20.7	16.2/41.4	8.1/20.7	607/2700	180/800	271	404
<b>62 - 72 Fibers</b>	O-XXX-L3-XY-F12NS	6	0.85/21.7	17.0/43.4	8.5/21.7	607/2700	180/800	298	444
<b>74 - 96 Fibers</b>	O-XXX-L3-XY-F12NS	8	0.93/23.8	18.7/47.6	9.3/23.8	607/2700	180/800	345	514
<b>98 - 120 Fibers</b>	O-XXX-L3-XY-F12NS	10	1.02/25.9	20.3/51.8	10.2/25.9	607/2700	180/800	398	593
<b>122 - 144 Fibers</b>	O-XXX-L3-XY-F12NS	12	1.09/27.9	21.9/55.8	10.9/27.9	607/2700	180/800	450	671
<b>146 - 216 Fibers</b>	O-XXX-L3-XY-F12NS	18	1.09/27.9	21.9/55.8	10.9/27.9	607/2700	180/800	447	667
<b>218 - 288 Fibers</b>	O-XXX-L3-XY-F12NS	24	1.21/30.9	24.3/61.8	12.1/30.9	607/2700	180/800	529	789
<b>Singlemode/Multimode Composite (4-288 Fibers)</b>	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

**6F** 62.5µm, FDDI Grade Multimode Fiber  
**5M** LaserCore® 150, 50µm, Multimode Fiber  
**5L** LaserCore® 300, 50µm, Multimode Fiber  
**5K** LaserCore® 500, 50µm, Multimode Fiber

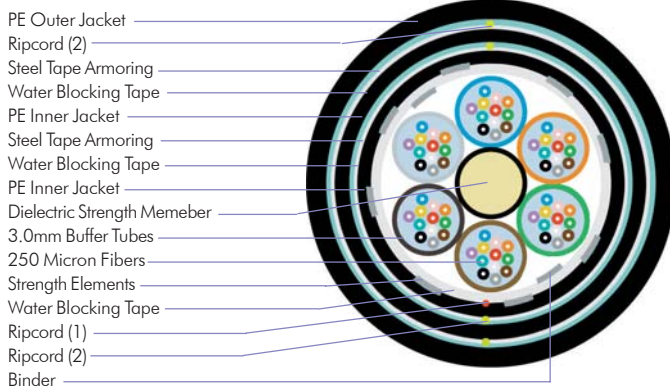
**For Composites Only:**  
**aaa** is replaced with singlemode fiber count  
**AA** is replaced with singlemode type

**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

### Triple Jacket/Double Armor Loose Tube Cable

(72 Fiber Version Shown)



### Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40° to 158°F (-40° to 70°C)	FOTP-3
Installation Temperature	-22° to 140°F (-30° to 60°C)	N/A
Storage Temperature	-40° to 167°F (-40° to 75°C)	N/A
Crush Resistance	250 lbf/in (44 N/mm)	FOTP-41
Impact Resistance	Exceeds	FOTP-25
Flexing	25 Cycles	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.


ANSI/ICEA S-87-640-1999 Standard for Optical Fiber Outside Plant Communications Cable

Specifications are subject to change without notice.

# Double Jacketed All-Dielectric Outdoor Cable



Double Jacketed

Product Type/ Fiber Count	Catalog Number	Sub Units	Outer Diameter inch/mm	Minimum Bend Radius		Maximum Tensile Load		Weight	
				Loaded inch/cm	Unloaded inch/cm	lbs/meters Short Term	Long Term	lbs/ kft	kg/ km
<b>Double Jacket/ All-Dielectric 2 - 60 Fibers</b> 	O- <b>XXX</b> -LD- <b>XY</b> -F12NS	5	0.55/13.9	10.9/27.8	5.5/13.9	607/2700	180/800	193	138
<b>62 - 72 Fibers</b>	O- <b>XXX</b> -LD- <b>XY</b> -F12NS	6	0.58/14.9	11.7/29.8	5.8/14.9	607/2700	180/800	108	161
<b>74 - 96 Fibers</b>	O- <b>XXX</b> -LD- <b>XY</b> -F12NS	8	0.66/16.9	13.3/33.8	6.6/16.9	607/2700	180/800	140	209
<b>98 - 120 Fibers</b>	O- <b>XXX</b> -LD- <b>XY</b> -F12NS	10	0.75/19.0	14.9/38.0	7.5/19.0	607/2700	180/800	170	253
<b>122 - 144 Fibers</b>	O- <b>XXX</b> -LD- <b>XY</b> -F12NS	12	0.83/21.1	16.6/42.2	8.3/21.1	607/2700	180/800	203	302
<b>146 - 216 Fibers</b>	O- <b>XXX</b> -LD- <b>XY</b> -F12NS	18	0.83/21.1	16.6/42.2	8.3/21.1	607/2700	180/800	195	291
<b>218 - 288 Fibers</b>	O- <b>XXX</b> -LD- <b>XY</b> -F12NS	24	0.95/24.1	18.9/48.2	9.5/24.1	607/2700	180/800	253	378
<b>Singlemode/Multimode Composite (4-288 Fibers)</b>	O- <b>XXX</b> -LD- <b>CM</b> -F12NS/ <b>AAaaa</b> / <b>BBbbb</b>	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

**6F** 62.5µm, FDDI Grade Multimode Fiber

**5M** LaserCore™ 150, 50µm, Multimode Fiber

**5L** LaserCore™ 300, 50µm, Multimode Fiber

**5K** LaserCore™ 500, 50µm, Multimode Fiber

#### For Composites Only:

**aaa** is replaced with singlemode fiber count

**AA** is replaced with singlemode type

**bbb** is replaced by multimode fiber count

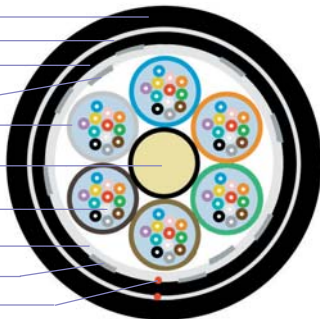
**BB** is replaced by multimode type

**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 All-Dielectric Loose Tube Cable

(72 Fiber Version Shown)

- PE Outer Jacket
- Water Blocking Tape
- PE Inner Jacket
- Binder
- 3.0 mm Gel Filled Buffer Tubes
- Dielectric Strength Member
- 250 Micron Fibers
- Water Blocking Tape
- Strength Elements
- RipCORDS (2)



## Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40° to 158°F (-40° to 70°C)	FOTP-3
Installation Temperature	-22° to 140°F (-30° to 60°C)	N/A
Storage Temperature	-40° to 167°F (-40° to 75°C)	N/A
Crush Resistance	250 lbf/in (44 N/mm)	FOTP-41
Impact Resistance	Exceeds	FOTP-25
Flexing	25 Cycles	FOTP-104
Twist Bend	Exceeds	FOTP-85

CommScope Outside Plant Fiber Optic cables are qualified to the requirements of ANSI/ICEA S-87-640-1999 Standard for Optical Fiber Outside Plant Communications Cable

Telcordia GR-20-CORE, Issue 2.

Specifications are subject to change without notice.

# Outside Plant Self-Supporting Figure-8 Cable

## Messengered Stranded Loose Tube Armored



### 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	Width inch/mm	Height inch/cm	Minimum Bend Radius Loaded inch/cm    Unloaded lbs/newtons		Maximum Tensile Load Short Term inch/cm/    Long Term lbs/newtons		Weight lbs/ kft    kg/ km	
<b>Figure-8 Armored 2 - 72 Fibers</b> 	M- <b>XXX</b> -LA- <b>XY</b> -F12NS	6	0.55/14.0	0.99/25.2	22.0/56.0	11.0/28.0	607/2700	180/800	257	383
<b>74 - 144 Fibers</b>	M- <b>XXX</b> -LA- <b>XY</b> -F12NS	12	0.80/20.3	1.24/31.5	31.9/81.2	15.9/40.6	607/2700	180/800	357	532
<b>146 - 216 Fibers</b>	M- <b>XXX</b> -LA- <b>XY</b> -F12NS	18	0.80/20.3	1.24/31.5	31.9/81.2	15.9/40.6	607/2700	180/800	341	508
<b>Singlemode/Multimode Composite (4-216 Fibers)</b>	M- <b>XXX</b> -LA- <b>CM</b> -F12NS/ <b>AAaaa</b> / <b>BBbbb</b>	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

**6F** 62.5µm, FDDI Grade Multimode Fiber  
**5M** LaserCore™ 150, 50µm, Multimode Fiber  
**5L** LaserCore™ 300, 50µm, Multimode Fiber  
**5K** LaserCore™ 500, 50µm, Multimode Fiber

**For Composites Only:** **aaa** is replaced with singlemode fiber count  
**AA** is replaced with singlemode type

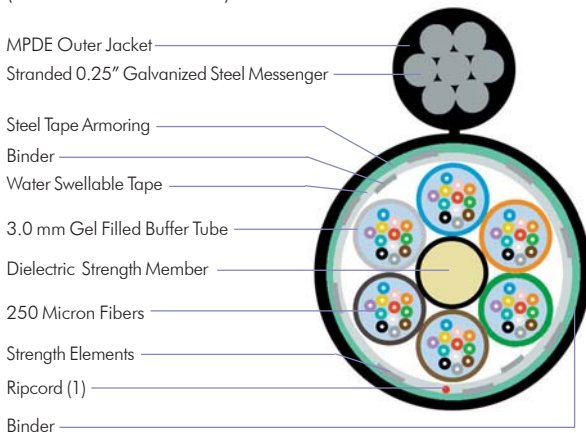
**bbb** is replaced by multimode fiber count  
**BB** is replaced by multimode type

**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 Armored Cable

(72 Fiber Version Shown)



### Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40° to 158°F (-40° to 70°C)	FOTP-3
Installation Temperature	-22° to 140°F (-30° to 60°C)	N/A
Storage Temperature	-40° to 167°F (-40° to 75°C)	N/A
Crush Resistance	250 lbf/in (44 N/mm)	FOTP-41
Impact Resistance	Exceeds	FOTP-25
Flexing	25 Cycles	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.

ANSI/ICEA S-87-640-1999 Standard for Optical Fiber Outside Plant Communications Cable

Specifications are subject to change without notice.

# Outside Plant Self-Supporting Figure-8 Cable

## Messengered Stranded Loose Tube All-Dielectric



### 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	Width inch/mm	Height inch/cm	Minimum Bend Radius Loaded Unloaded		Maximum Tensile Load Short Term Long Term		Weight lbs/ kft		kg/ km	
<b>Figure-8 Non-Armored 2 - 72 Fibers</b> 	M- <b>XXX</b> -LN- <b>XY</b> -F12NS	6	0.49/12.6	0.93/23.8	19.8/50.4	9.9/25.2	607/2700	180/800	213	317		
<b>74 - 144 Fibers</b>	M- <b>XXX</b> -LN- <b>XY</b> -F12NS	12	0.74/18.8	1.18/30.0	29.5/75.2	14.8/37.6	607/2700	180/800	290	433		
<b>146 - 216 Fibers</b>	M- <b>XXX</b> -LN- <b>XY</b> -F12NS	18	0.74/18.8	1.18/30.0	29.5/75.2	14.8/37.6	607/2700	180/800	275	410		
<b>Singlemode/Multimode Composite (4-216 Fibers)</b>	M- <b>XXX</b> -LN- <b>CM</b> -F12NS/ <b>AAaaa</b> / <b>BBbbb</b>				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

**6F** 62.5µm, FDDI Grade Multimode Fiber  
**5M** LaserCore® 150, 50µm, Multimode Fiber  
**5L** LaserCore® 300, 50µm, Multimode Fiber  
**5K** LaserCore® 500, 50µm, Multimode Fiber

#### For Composites Only:

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

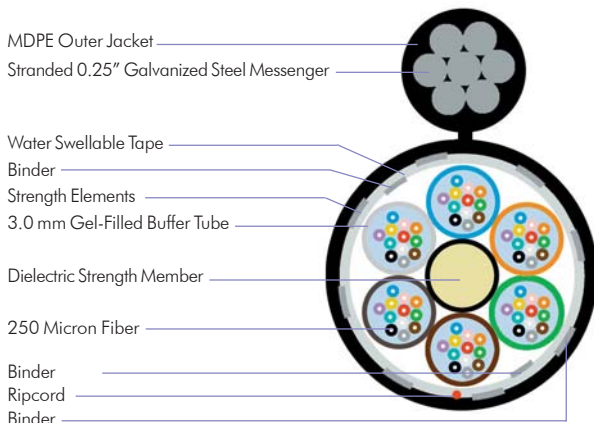
**bbb** is replaced by multimode fiber count  
**BB** is replaced by multimode type

**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)



### Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40° to 158°F (-40° to 70°C)	FOTP-3
Installation Temperature	-22° to 140°F (-30° to 60°C)	N/A
Storage Temperature	-40° to 167°F (-40° to 75°C)	N/A
Crush Resistance	250 lbf/in (44 N/mm)	FOTP-41
Impact Resistance	Exceeds	FOTP-25
Flexing	25 Cycles	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.

ANSI/ICEA S-87-640-1999 Standard for Optical Fiber Outside Plant Communications Cable

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' (91 m) 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	Unloaded inch/cm	Installation Loading lbs/newtons	Weight lbs/ kft	kg/ km
<b>Single Jacket 2-20 Fibers</b>	S- <b>XXX</b> -LN- <b>XY</b> -F04NS/ <b>ZZZZ</b>	4	0.353/9.0	5.3/13.5	3.5/9.0	Variable Zero fiber strain at full in-service load	40	59



### 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

**6F** 62.5µm, FDDI Grade Multimode Fiber  
**5M** LaserCore™ 150, 50µm, Multimode Fiber  
**5L** LaserCore™ 300, 50µm, Multimode Fiber  
**5K** LaserCore™ 500, 50µm, Multimode Fiber

**ZZZZ** = NESC Loading Conditions and maximum span length (feet)

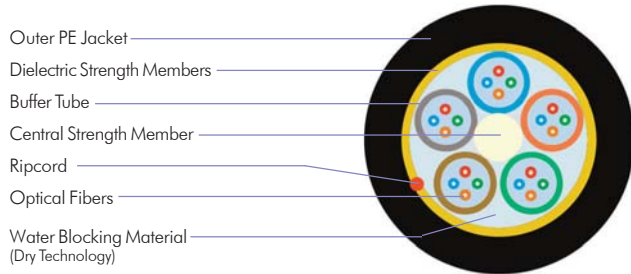
**For Composites Only:** **aaa** is replaced with singlemode fiber count  
**AA** is replaced with singlemode type

**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 158°F (-40° to 70°C)	FOTP-3
Installation Temperature	-22° to 140°F (-30° to 60°C)	N/A
Storage Temperature	-40° to 167°F (-40° to 75°C)	N/A
Crush Resistance	125lb/f (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%	387ft (118.0m)	250ft (76.2m)	149ft (45.4m)
1.5%	441ft (134.4m)	272ft (82.9m)	158ft (48.2m)
2.0%	479ft (146.0m)	290ft (88.4m)	167ft (50.9m)

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 1150 feet/350 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 Unloaded		Installation Loading	Weight lbs/ kft kg/ km
				inch/cm	inch/cm		
<b>Single Jacket 2-30 Fibers</b>	S- <b>XXX</b> -LN- <b>XY</b> -F06NS/ <b>ZZZZ</b>	6	Variable	Variable	Variable	Variable	Variable
<b>32-60 Fibers</b>	S- <b>XXX</b> -LN- <b>XY</b> -F12NS/ <b>ZZZZ</b>	12	Variable	Variable	Variable	Variable	Variable
<b>62-72 Fibers</b>	S- <b>XXX</b> -LN- <b>XY</b> -F12NS/ <b>ZZZZ</b>	12	Variable	Variable	Variable	Variable	Variable

\*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

**6F** 62.5μm, FDDI Grade Multimode Fiber

**5M** LaserCore™ 150, 50μm, Multimode Fiber

**5L** LaserCore™ 300, 50μm, Multimode Fiber

**5K** LaserCore™ 500, 50μm, Multimode Fiber

**ZZZZ** = NESC Loading Conditions and maximum span length (feet)

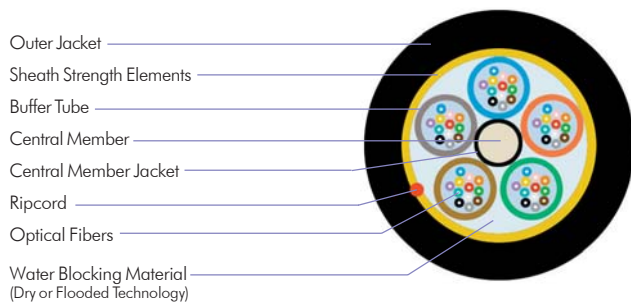
**For Composites Only:** **aaa** is replaced with singlemode fiber count  
**AA** is replaced with singlemode type

**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 158°F (-40° to 70°C)	FOTP-3
Installation Temperature	-22° to 140°F (-30° to 60°C)	N/A
Storage Temperature	-40° to 167°F (-40° to 75°C)	N/A
Crush Resistance	125lbf/in (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 on 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 banding)

Product Type/ Fiber Count	Catalog Number	Fibers Per Tube	Outer Diameter inch/mm	Minimum Bend Radius	Installation Loading	Weight
<b>Double Jacket 2-30 Fibers</b> 	S- <b>XXX</b> -LD- <b>XY</b> -F06NS/ <b>ZZZZ</b>	6	Variable	Variable 15 x cable outer diameter during installation	Variable  (custom designed per application)	Variable
	S- <b>XXX</b> -LD- <b>XY</b> -F12NS/ <b>ZZZZ</b>	12	Variable	Variable 10 x cable outer diameter post installation	Variable  (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

**6F** 62.5µm, FDDI Grade Multimode Fiber

**5M** LaserCore® 150, 50µm, Multimode Fiber

**5L** LaserCore® 300, 50µm, Multimode Fiber

**5K** LaserCore® 500, 50µm, Multimode Fiber

**ZZZZ** = NESC Loading Conditions and maximum span length (feet)

**For Composites Only:**

**aaa** is replaced with singlemode fiber count

**AA** is replaced with multimode type

**bbb** is replaced by multimode fiber count

**BB** is replaced by multimode type

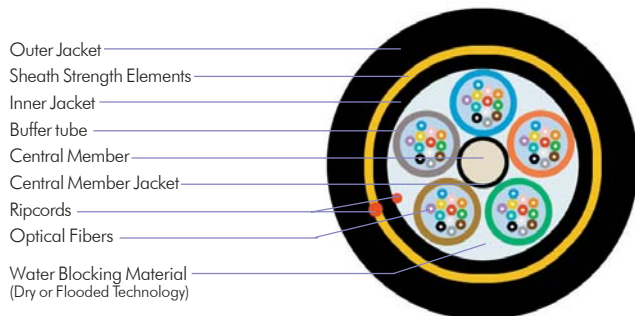
**Buffer Tubes/Fiber Identification colors:** 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

**Buffer Tubes 13 - 18 repeat color sequence with tracer stripe**

**Note:** Add "AT" to the end of the catalog number if any 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 158°F (-40° to 70°C)	FOTP-3
Installation Temperature	-22° to 140°F (-30° to 60°C)	N/A
Storage Temperature	-40° to 167°F (-40° to 75°C)	N/A
Crush Resistance	125lbf/in (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 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
- 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		Maximum Tensile Load		Weight	
				Loaded inch/cm	Unloaded inch/cm	Short Term lbs/newtons	Long Term lbs/newtons	lbs/ kft	kg/ km
<b>Armored 2-24 Fibers, 4mm Tube</b>	O-XXX-CA-XY-F12NS	2	0.43/11.0	8.6/22.0	4.3/11.0	607/2700	180/800	93	138
<b>26-48 Fibers, 6mm Tube</b>	O-XXX-CA-XY-F12NS	4	0.51/13.0	10.2/26.0	5.1/13.0	607/2700	180/800	121	181
<b>50 - 96 Fibers, 8mm Tube</b>	O-XXX-CA-XY-F12NS	8	0.59/15.0	11.8/30.0	5.9/15.0	607/2700	180/800	152	226
<b>All-Dielectric 2-24 Fibers, 4mm Tube</b>	O-XXX-CN-XY-F12NS	2	0.40/10.1	7.9/20.2	4.0/10.1	607/2700	180/800	63	94
<b>26-48 Fibers, 6mm Tube</b>	O-XXX-CN-XY-F12NS	4	0.47/12.1	9.5/24.2	4.7/12.1	607/2700	180/800	86	128
<b>50-96 Fibers, 8mm Tube</b>	O-XXX-CN-XY-F12NS	8	0.55/14.1	11.1/28.2	5.5/14.1	607/2700	180/800	110	164
<b>Singlemode/Multimode Composite (4-96 Fibers)</b>	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

**6F** 62.5µm, FDDI Grade Multimode Fiber

**5M** LaserCore™ 150, 50µm, Multimode Fiber

**5L** LaserCore™ 300, 50µm, Multimode Fiber

**5K** LaserCore™ 500, 50µm, Multimode Fiber

**For Composites Only:** **aaa** is replaced with singlemode fiber count

**AA** is replaced with singlemode type

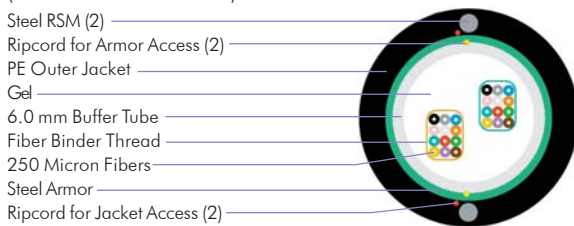
**bbb** is replaced by multimode fiber count

**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

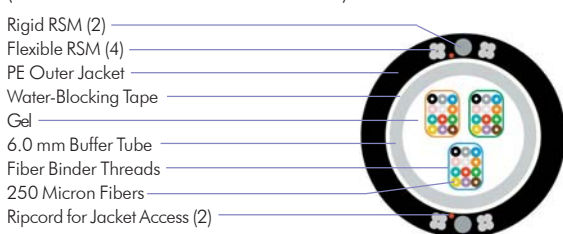
### Central Tube Armored Cable

(24 Fiber Version Shown)



### Central Tube Non-Armored All-Dielectric Cable

(36 Fiber All-Dielectric Version Shown)



Specifications are subject to change without notice.

### Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40° to 158°F (-40° to 70°C)	FOTP-3
Installation Temperature	-22° to 140°F (-30° to 60°C)	N/A
Storage Temperature	-40° to 167°F (-40° to 75°C)	N/A
Crush Resistance	250 lbf/in (44 N/mm)	FOTP-41
Impact Resistance	Exceeds	FOTP-25
Flexing	25 Cycles	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.

ANSI/ICEA S-87-640-1999 Standard for Optical Fiber Outside Plant Communications Cable



# 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		Maximum Tensile Load		Weight	
				Loaded inch/cm	Unloaded inch/cm	Short Term lbs/newtons	Long Term lbs/newtons	lbs/ kft	kg/ km
<b>Pavement Cable 2 - 72 Fibers</b>	O- <b>XXX</b> -CP- <b>XY</b> -F12NS	6	0.35/8.8	6.9/17.6	3.5/8.8	6-7/2700	180/800	78	116



### 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

**6F** 62.5µm, FDDI Grade Multimode Fiber  
**5M** LaserCore® 150, 50µm, Multimode Fiber  
**5L** LaserCore® 300, 50µm, Multimode Fiber  
**5K** LaserCore® 500, 50µm, Multimode Fiber

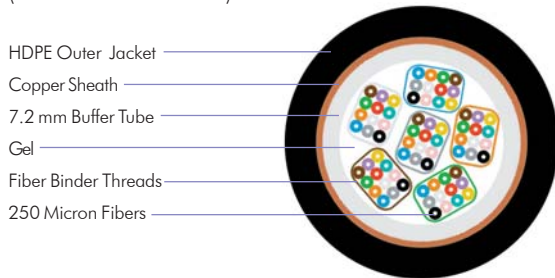
**For Composites Only:** **aaa** is replaced with singlemode fiber count  
**AA** is replaced with singlemode type

**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 158°F (-40° to 70°C)	FOTP-3
Installation Temperature	-22° to 140°F (-30° to 60°C)	N/A
Storage Temperature	-40° to 158°F (-40° to 70°C)	N/A
Crush Resistance	250 lbf/in (44 N/mm)	FOTP-41
Impact Resistance	2.17 lbf-ft (2.94 N·m)	FOTP-25
Flexing	25 Cycles	FOTP-104
Twist Bend	Exceeds	FOTP-85

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

### 5/8" Backer Rod

Closed Cell Foamed Neoprene Rod

Product Type	Catalog Number	Outer Diameter inch/mm
<b>Backer Rod</b>	KIT-TOL-BKR-5/8N	0.625/15.93



### Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40° to 158°F (-40° to 70°C)	N/A
Installation Temperature	-22° to 140°F (-30° to 60°C)	N/A
Storage Temperature	-40° to 167°F (-40° to 75°C)	N/A
Compression Deflection, 25% (psi)	5-9	ASTM D 1056-98
Heat Resistance		
Oven-aged 7 days @70°C	-1	ASTM D 1056-98
Oven-aged 22 hrs. @ 100°C	0	ASTM D 1056-98
Water Absorption (%)	<5	ASTM D 1056-98
Compression Set (22 hrs. @ 23°C, 50% deflection, 24 hr. recovery, %)	11	ASTM D 1056-98 (suffix B2)
Fluid Resistance (22 hrs. @ 23°C in Reference Fuel B, Change in weight, %)	+123	ASTM D 1056-98
Flamability of Interior Mat.	PASS	FMVSS (suffix Z1)
Fluid Resistance (IRM 903 Oil, 22 hrs. @ 70°C Volume Change, %)	-0.26	ASTM D 471 (suffix Z2)

Specifications are subject to change without notice.

### 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		Maximum Tensile Load		Weight	
				Loaded inch/cm	Unloaded inch/cm	Short Term lbs/newtons	Long Term lbs/newtons	lbs/ kft	kg/ km
<b>Armored 1 - 12 Fibers</b>	O- <b>XXX</b> -DA- <b>XY</b> -F12NS	1	0.311/7.9	12.41/31.6	6.21/15.8	300/1335	90/400	52	78
<b>Singlemode/Multimode Composite (4-12 Fibers)</b>	O- <b>XXX</b> -DA-CM-F12NS/ <b>AA</b> <b>aaa</b> / <b>BB</b> <b>bbb</b>	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

**6F** 62.5µm, FDDI Grade Multimode Fiber  
**5M** LaserCore® 150, 50µm, Multimode Fiber  
**5L** LaserCore® 300, 50µm, Multimode Fiber  
**5K** LaserCore® 500, 50µm, Multimode Fiber

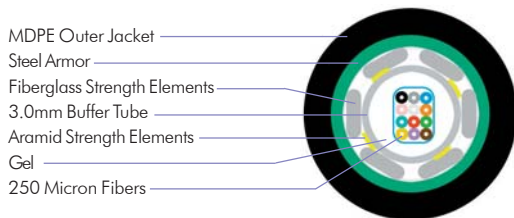
**For Composites Only:** **aaa** is replaced with singlemode fiber count  
**AA** is replaced with singlemode type

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

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

### Drop Armored Cable

(12 fiber version shown)



### Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40° to 158°F (-40° to 70°C)	FOTP-3
Installation Temperature	-22° to 140°F (-30° to 60°C)	N/A
Storage Temperature	-40° to 158°F (-40° to 70°C)	N/A
Crush Resistance	125 lbf/in (22 N/mm)	FOTP-41
Impact Resistance	2.17 lbf-ft (2.94 N·m)	FOTP-25
Flexing	25 Cycles	FOTP-104
Twist Bend	Exceeds	FOTP-85

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

Specifications are subject to change without notice.

# Outside Plant Drop Cable

## All-Dielectric 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
- Rigid dielectric strength members support placement in power utility easements

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
<b>All-Dielectric 1 - 12 Fibers</b>	O- <b>XXX</b> -DN- <b>XY</b> -F12NS/30T	1	0.351/8.8	13.8/35.2	6.91/17.6	300/1335	90/400	47	70
<b>Singlemode/Multimode Composite (4-12 Fibers)</b>	O- <b>XXX</b> -DN-CM-F12NS/ <b>AA</b> <b>aaa</b> / <b>BB</b> <b>bbb</b>	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

**6F** 62.5µm, FDDI Grade Multimode Fiber  
**5M** LaserCore™ 150, 50µm, Multimode Fiber  
**5L** LaserCore™ 300, 50µm, Multimode Fiber  
**5K** LaserCore™ 500, 50µm, Multimode Fiber

**For Composites Only:** **aaa** is replaced with singlemode fiber count  
**AA** is replaced with singlemode type

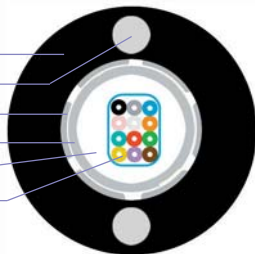
**bbb** is replaced by multimode fiber count  
**BB** is replaced by multimode type

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

### All-Dielectric Drop Cable

(12 fiber version shown)

- PE Outer Jacket
- Rigid RSM (2)
- Strength Elements
- 3.0 mm Buffer Tube
- Gel
- 250 Micron Fibers



### Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40° to 158°F (-40° to 70°C)	FOTP-3
Installation Temperature	-22° to 140°F (-30° to 60°C)	N/A
Storage Temperature	-40° to 158°F (-40° to 70°C)	N/A
Crush Resistance	125 lbf/in (22 N/mm)	FOTP-41
Impact Resistance	2.17 lbf-ft (2.94 N·m)	FOTP-25
Flexing	25 Cycles	FOTP-104
Twist Bend	Exceeds	FOTP-85

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

Specifications are subject to change without notice.

# Outside Plant Self-Supporting Figure 8 Drop Cable

## 1 - 12 Fiber Arid-Core Construction



### For 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
- Medium Density Polyethylene jacket is rugged, durable and easy to strip
- Solid steel messenger member for simplified aerial applications
- Flexible design allows for ease of routing and placement

Product Type/ Fiber Count	Catalog Number	Diameter Over Messenger inch/mm	Diameter Over Fiber inch/mm	Minimum Bend Radius		Maximum Tensile Load		Weight	
				Loaded inch/cm	Unloaded inch/cm	Short Term lbs/newtons	Long Term lbs/newtons	lbs/ kft	kg/ km
<b>Figure 8 Drop 1 - 12 Fibers</b>	M- <b>XXX</b> -DN- <b>XY</b> -F12NS/ GSM/40T	0.13/3.4	0.20/5.1	8.0/20.4	4.0/10.2	300/1335	90/400	44	66



### 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

**6F** 62.5µm, FDDI Grade Multimode Fiber  
**5M** LaserCore™ 150, 50µm, Multimode Fiber  
**5L** LaserCore™ 300, 50µm, Multimode Fiber  
**5K** LaserCore™ 500, 50µm, Multimode Fiber

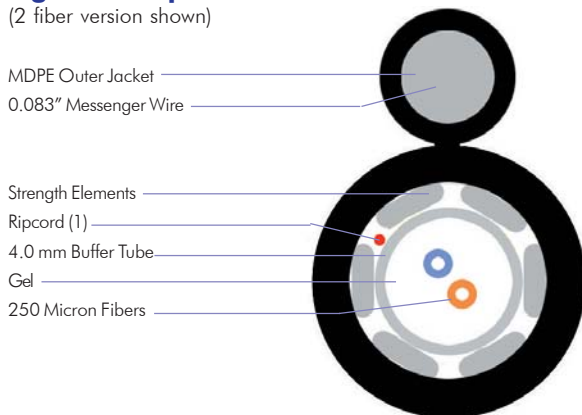
**For Composites Only:** **aaa** is replaced with singlemode fiber count  
**AA** is replaced with singlemode type

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

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

### Figure 8 Drop Cable

(2 fiber version shown)



### Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40° to 158°F (-40° to 70°C)	FOTP-3
Installation Temperature	-22° to 140°F (-30° to 60°C)	N/A
Storage Temperature	-40° to 158°F (-40° to 70°C)	N/A
Crush Resistance	125 lbf/in (22 N/mm)	FOTP-41
Impact Resistance	2.17 lbf-ft (2.94 N·m)	FOTP-25
Flexing	25 Cycles	FOTP-104
Twist Bend	Exceeds	FOTP-85

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

### Sag and Tension Examples

NESC Loading Conditions	1% Installation Sag		2% Installation Sag		3% Installation Sag	
	Max Span ft (m)	Sag at NESC Loading (%)	Max Span ft (m)	Sag at NESC Loading (%)	Max Span ft (m)	Sag at NESC Loading (%)
Heavy	377 (115)	4.13	427 (130)	4.68	482 (147)	5.26
Medium	623 (190)	3.84	728 (222)	4.52	820 (250)	5.12
Light	909 (277)	3.41	1132 (345)	4.27	1312 (400)	4.96

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

Custom Sag and Tension Tables are available providing the recommended sag or tension. Please contact technical support.

Specifications are subject to change without notice.

# Outside Plant Self-Supporting Figure 8 Mini-Drop Cable

## 1 - 6 Fiber Arid-Core Construction Copper Clad Steel Messenger



### For 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
- Medium Density Polyethylene jacket is rugged, durable and easy to strip
- Solid steel messenger member for simplified aerial applications
- Flexible design allows for ease of routing and placement

Product Type/ Fiber Count	Catalog Number	Diameter Over Messenger inch/mm	Diameter Over Fiber inch/mm	Minimum Bend Radius		Maximum Tensile Load		Weight	
				Loaded inch/cm	Unloaded inch/cm	Short Term lbs/newtons	Long Term lbs/newtons	lbs/ kft	kg/ km
<b>Figure 8 Mini-Drop 1 - 6 Fibers</b>	M- <b>XXX</b> -MN- <b>XY</b> -F12NS/ CCS	0.13/3.4	0.20/5.1	8.0/20.4	4.0/10.2	300/1335	90/400	44	66



### 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

**6F** 62.5µm, FDDI Grade Multimode Fiber  
**5M** LaserCore™ 150, 50µm, Multimode Fiber  
**5L** LaserCore™ 300, 50µm, Multimode Fiber  
**5K** LaserCore™ 500, 50µm, Multimode Fiber

**For Composites Only:** **aaa** is replaced with singlemode fiber count  
**AA** is replaced with singlemode type

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

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

### Figure 8 Mini-Drop Cable

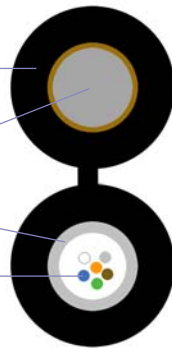
(6 fiber version shown)

Linear Low Density  
Polyethylene Outer Jacket

Solid Steel Messenger

2.5mm Gel Filled Buffer Tube

250 Micron Fibers



### Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40° to 158°F (-40° to 70°C)	FOTP-3
Installation Temperature	-22° to 140°F (-30° to 60°C)	N/A
Storage Temperature	-40° to 158°F (-40° to 70°C)	N/A
Crush Resistance	125 lbf/in (22 N/mm)	FOTP-41
Impact Resistance	2.17 lbf-ft (2.94 N·mm)	FOTP-25
Flexing	25 Cycles	FOTP-104
Twist Bend	Exceeds	FOTP-85

CommScope Outside Plant Fiber Optic cables are qualified to the ANSI/ICEA S-110-717-2002 Standard for Optical Fiber Drop Cable.

### Sag and Tension Examples

NESC Loading Conditions	1% Installation Sag		2% Installation Sag		3% Installation Sag	
	Max Span ft (m)	Sag at NESC Loading (%)	Max Span ft (m)	Sag at NESC Loading (%)	Max Span ft (m)	Sag at NESC Loading (%)
Heavy	164 (50)	4.16	180 (55)	4.61	203 (62)	5.17
Medium	276 (84)	3.97	312 (95)	4.51	351 (107)	5.08
Light	426 (130)	3.67	508 (155)	4.35	590 (180)	5.00

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

Custom Sag and Tension Tables are available providing the recommended sag or tension. Please contact technical support.

Specifications are subject to change without notice.

# Outside Plant Self-Supporting Figure 8 Mini-Drop Cable

## 1 - 6 Fiber Arid-Core Construction Stranded Steel Messenger



### For 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
- Medium Density Polyethylene jacket is rugged, durable and easy to strip
- Solid steel messenger member for simplified aerial applications
- Flexible design allows for ease of routing and placement

Product Type/ Fiber Count	Catalog Number	Diameter Over Messenger inch/mm	Diameter Over Fiber inch/mm	Minimum Bend Radius		Maximum Tensile Load		Weight	
				Loaded inch/cm	Unloaded inch/cm	Short Term lbs/newtons	Long Term lbs/newtons	lbs/ kft	kg/ km
<b>Figure 8 Mini-Drop 1 - 6 Fibers</b>	M- <b>XXX</b> -MN- <b>XY</b> -F12NS/ BSS	0.16/4.0	0.15/3.8	6.0/15.2	3.0/7.6	300/1335	90/400	44	66



### 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

**6F** 62.5µm, FDDI Grade Multimode Fiber  
**5M** LaserCore® 150, 50µm, Multimode Fiber  
**5L** LaserCore® 300, 50µm, Multimode Fiber  
**5K** LaserCore® 500, 50µm, Multimode Fiber

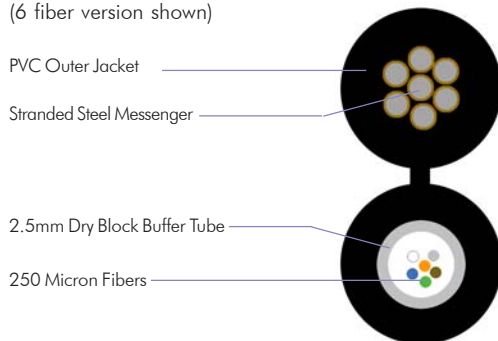
**For Composites Only:** **aaa** is replaced with singlemode fiber count  
**AA** is replaced with singlemode type

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

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

### Figure 8 Mini-Drop Cable

(6 fiber version shown)



### Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40° to 158°F (-40° to 70°C)	FOTP-3
Installation Temperature	-22° to 140°F (-30° to 60°C)	N/A
Storage Temperature	-40° to 158°F (-40° to 70°C)	N/A
Crush Resistance	125 lbf/in (22 N/mm)	FOTP-41
Impact Resistance	2.17 lbf-ft (2.94 N-m)	FOTP-25
Flexing	25 Cycles	FOTP-104
Twist Bend	Exceeds	FOTP-85

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

### Sag and Tension Examples

NESC Loading Conditions	1% Installation Sag		2% Installation Sag		3% Installation Sag	
	Max Span ft (m)	Sag at NESC Loading (%)	Max Span ft (m)	Sag at NESC Loading (%)	Max Span ft (m)	Sag at NESC Loading (%)
Heavy	131 (40)	4.10	147 (45)	4.60	164 (50)	5.14
Medium	220 (67)	3.91	252 (77)	4.48	288 (88)	5.09
Light	344 (105)	3.59	410 (125)	4.30	475 (145)	4.96

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

Custom Sag and Tension Tables are available providing the recommended sag or tension. Please contact technical support.

Specifications are subject to change without notice.

# Outside Plant All-Dielectric Flat Drop Cable

1 - 6 Fiber Arid-Core Construction Aerial Self-Support or Direct Burial



Product Type/ Fiber Count	Catalog Number	Diameter Over Messenger inch/mm	Diameter Over Fiber inch/mm	Minimum Bend Radius		Maximum Tensile Load		Weight	
				Loaded inch/cm	Unloaded inch/cm	Short Term lbs/newtons	Long Term lbs/newtons	lbs/ kft	kg/ km
<b>All-Dielectric Flat Drop 1 - 6 Fibers</b>	O- <b>XXX</b> -DF- <b>XY</b> -F12NS/ CCS	0.18/4.5	0.32/8.2	12.9/32.8	6.4/16.4	300/1335	90/400	36	54



### 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

**6F** 62.5µm, FDDI Grade Multimode Fiber

**5M** LaserCore™ 150, 50µm, Multimode Fiber

**5L** LaserCore™ 300, 50µm, Multimode Fiber

**5K** LaserCore™ 500, 50µm, Multimode Fiber

**For Composites Only:**

**aaa** is replaced with singlemode fiber count

**AA** is replaced with singlemode type

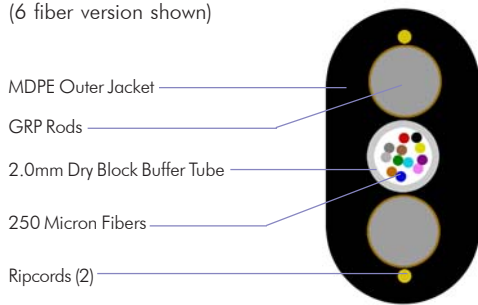
**bbb** is replaced by multimode fiber count

**BB** is replaced by multimode type

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

### Figure 8 Mini-Drop Cable

(6 fiber version shown)



### Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40° to 158°F (-40° to 70°C)	FOTP-3
Installation Temperature	-22° to 140°F (-30° to 60°C)	N/A
Storage Temperature	-40° to 158°F (-40° to 70°C)	N/A
Crush Resistance	125 lbf/in (22 N/mm)	FOTP-41
Impact Resistance	2.17 lbf-ft (2.94 N·mm)	FOTP-25
Flexing	25 Cycles	FOTP-104
Twist Bend	Exceeds	FOTP-85

CommScope Outside Plant Fiber Optic cables are qualified to the ANSI/ICEA S-110-717-2002 Standard for Optical Fiber Drop Cable.

### Sag and Tension Examples

NESC Loading Conditions	1% Installation Sag		2% Installation Sag		3% Installation Sag	
	Max Span ft (m)	Sag at NESC Loading (%)	Max Span ft (m)	Sag at NESC Loading (%)	Max Span ft (m)	Sag at NESC Loading (%)
Heavy	190 (58)	4.44	210 (64)	4.92	236 (72)	5.48
Medium	328 (100)	4.14	377 (115)	4.77	427 (130)	5.36
Light	656 (200)	3.28	853 (260)	4.26	1000 (305)	5.00


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

Custom Sag and Tension Tables are available providing the recommended sag or tension. Please contact technical support.

Specifications are subject to change without notice.

**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
<b>Central Tube Dielectric</b> 2 - 24 Fibers  	O- <b>XXX</b> -CN- <b>XY</b> -F12NS Specify Conduit OD, Wall Thickness and Color	0.40" 63 lbs.	1"	SDR 11 or 13.5	265	230	
			1 1/4"	SDR 11 or 13.5	381	326	
			1 1/2"	SDR 11 or 13.5	477	405	
			2"	SDR 13.5 or SCH 40		593	533
<b>Central Tube Dielectric</b> 26 - 48 Fibers	O- <b>XXX</b> -CN- <b>XY</b> -F12NS Specify Conduit OD, Wall Thickness and Color	0.47" 86 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
<b>Central Tube Dielectric</b> 50 - 96 Fibers	O- <b>XXX</b> -CN- <b>XY</b> -F12NS Specify Conduit OD, Wall Thickness and Color	0.55" 110 lbs.	1"	SDR 11 or 13.5	291	256	
			1 1/4"	SDR 11 or 13.5	407	352	
			1 1/2"	SDR 11 or 13.5	503	431	
			2"	SDR 13.5 or SCH 40		619	559

Other cables and wall sizes may be available upon request.  
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

**6F** 62.5µm, FDDI Grade Multimode Fiber  
**5M** LaserCore™ 150, 50µm, Multimode Fiber  
**5L** LaserCore™ 300, 50µm, Multimode Fiber  
**5K** LaserCore™ 500, 50µm, Multimode Fiber

**For Composites Only:** **aaa** is replaced with singlemode fiber count  
**AA** is replaced with singlemode type

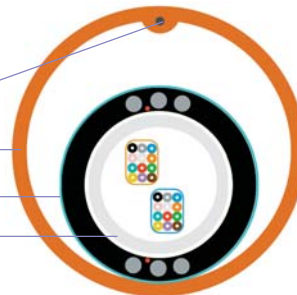
**bbb** is replaced by multimode fiber count  
**BB** is replaced by multimode type

**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)

- Copper Clad Steel Tone Wire
- High-grade Polyethylene Conduit
- Silicon-Based Lubricant
- Cable



Specifications are subject to change without notice.



# ConQuest® Toneable Conduit™

Installed with Stranded Loose 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
<b>Single Jacket Loose Tube Dielectric</b> 2 - 60 Fibers	O- <del>XXX</del> -LN-XY-F12NS Specify Conduit OD, Wall Thickness and Color	0.46" 64 lbs.	1" 1 1/4" 1 1/2" 2"	SDR 11 or 13.5	267	232	
				SDR 11 or 13.5	383	328	
				SDR 11 or 13.5	479	407	
				SDR 13.5 or SCH 40	595	535	
<b>Single Jacket Loose Tube Dielectric</b> 62 - 72 Fibers	O- <del>XXX</del> -LN-XY-F12NS Specify Conduit OD, Wall Thickness and Color	0.49" 78 lbs.	1" 1 1/4" 1 1/2" 2"	SDR 11 or 13.5	276	241	
				SDR 11 or 13.5	392	337	
				SDR 11 or 13.5	488	416	
				SDR 13.5 or SCH 40	604	544	
<b>Single Jacket Loose Tube Dielectric</b> 74 - 96 Fibers	O- <del>XXX</del> -LN-XY-F12NS Specify Conduit OD, Wall Thickness and Color	0.57" 101 lbs.	1" 1 1/4" 1 1/2" 2"	SDR 11 or 13.5	299	264	
				SDR 11 or 13.5	415	360	
				SDR 11 or 13.5	511	439	
				SDR 13.5 or SCH 40	627	567	
<b>Single Jacket Loose Tube Dielectric</b> 98 - 120 Fibers	O- <del>XXX</del> -LN-XY-F12NS Specify Conduit OD, Wall Thickness and Color	0.66" 125 lbs.	1 1/4" 1 1/2" 2"	SDR 11 or 13.5	438	383	
				SDR 11 or 13.5	534	462	
				SDR 13.5 or SCH 40	650	590	
<b>Single Jacket Loose Tube Dielectric</b> 122 - 144 Fibers	O- <del>XXX</del> -LN-XY-F12NS Specify Conduit OD, Wall Thickness and Color	0.74" 153 lbs.	1 1/4" 1 1/2" 2"	SDR 11 or 13.5	465	410	
				SDR 11 or 13.5	561	489	
				SDR 13.5 or SCH 40	677	617	
<b>Single Jacket Loose Tube Dielectric</b> 146 - 216 Fibers	O- <del>XXX</del> -LN-XY-F12NS Specify Conduit OD, Wall Thickness and Color	0.74" 150 lbs.	1 1/4" 1 1/2" 2"	SDR 11 or 13.5	473	418	
				SDR 11 or 13.5	569	497	
				SDR 13.5 or SCH 40	743	625	
<b>Single Jacket Loose Tube Dielectric</b> 218 - 288 Fibers	O- <del>XXX</del> -LN-XY-F12NS Specify Conduit OD, Wall Thickness and Color	0.86" 197 lbs.	1 1/2" 2"	SDR 11 or 13.5	415	545	
				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

**6F** 62.5µm, FDDI Grade Multimode Fiber  
**5M** LaserCore™ 150, 50µm, Multimode Fiber  
**5L** LaserCore™ 300, 50µm, Multimode Fiber  
**5K** LaserCore™ 500, 50µm, Multimode Fiber

**For Composites Only:** **aaa** is replaced with 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

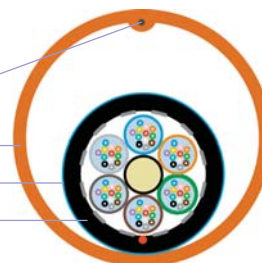
(72 Fiber Stranded Loose Tube All-Dielectric  
Cable in Toneable Conduit Shown)

Copper Clad Steel  
Tone Wire

High-Grade Polyethylene Conduit

Silicon-Based Lubricant

Cable



Specifications are subject to change without notice.

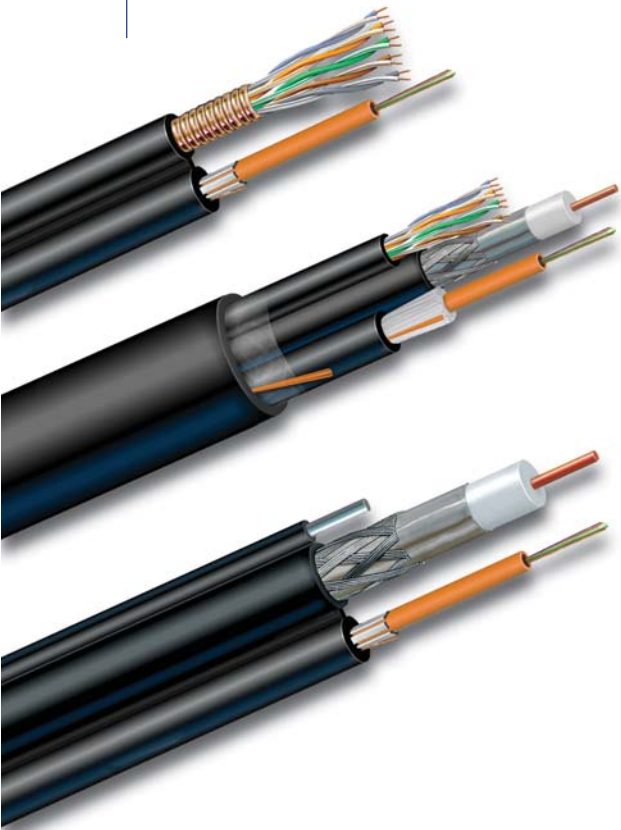
# CommScope Hybrid Cables

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.

Features	Benefits
<p><b>May contain copper UTP, coax and fiber optic subunits individually jacketed then cabled in a single bundle under one smooth surface.</b></p>	<ul style="list-style-type: none"> <li>• Great for multiple cable drops, phone/data lines, security systems and multi-media requirements</li> <li>• Saves time and installation dollars</li> <li>• Easier materials management</li> <li>• Components can be easily separated into individually jacketed points for easy termination</li> <li>• Capable of voice transmission, cable location and site powering</li> <li>• Avails future proofing for the demands of advanced data video and telecommunications for subscribers</li> <li>• Less prone to snags and violations of cable bend radius limits</li> <li>• Enhances the cable's ruggedness enabling each subunit to better withstand the rigors of cable installation and remote field applications</li> </ul>
<p><b>Coax cable subunits</b></p>	<ul style="list-style-type: none"> <li>• 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</li> </ul>
<p><b>Singlemode and/or multimode fiber optic cable subunits</b></p>	<ul style="list-style-type: none"> <li>• 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</li> <li>• Available in armored constructions for additional rodent and environmental protection</li> <li>• Tight buffered, loose tube or central tube designs offered in singlemode or multimode optical fiber types and a range of grades</li> </ul>
<p><b>Copper twisted pair subunits</b></p>	<ul style="list-style-type: none"> <li>• Often used in broadband networks for powering nodes and pedestals</li> <li>• 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</li> </ul>

### 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

Product Type/ Fiber Count/Pair Count	Catalog Number	Diameter Over Tw. Pair inch/mm	Diameter Over Fiber inch/mm	Minimum Bend Radius		Maximum Tensile Load		Weight	
				Loaded inch/cm	Unloaded inch/cm	Short term lbs./ Newtons	Long term lbs./Newtons	lbs/ kft	kg/ km
<b>1 - 12 Fibers</b> <b>1 - 6 22 AWG Pairs</b> 	O- <b>XXX</b> -DN-HY-F12NS/ <b>XYXXX</b> /NX22STP	0.34/8.60	0.30/7.60	11.9/30.4	6.0/15.2	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

**6F** 62.5μm, FDDI Grade Multimode Fiber

**5M** LaserCore® 150, 50μm, Multimode Fiber

**5L** LaserCore® 300, 50μm, Multimode Fiber

**5K** LaserCore® 500, 50μm, Multimode Fiber

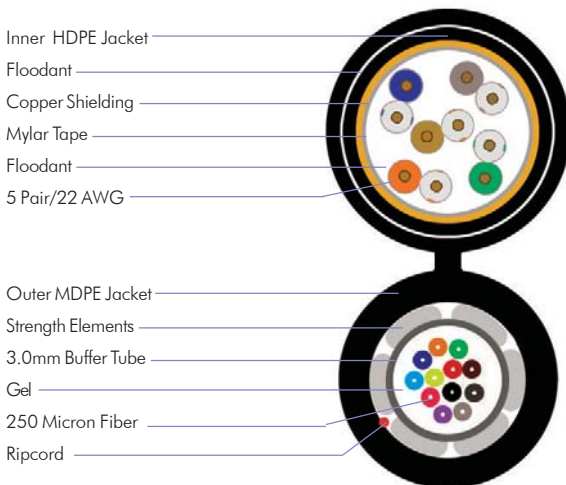
**N** = Number of Copper Pairs

**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 158°F (-40° to 70°C)	FOTP-3
Installation Temperature	-22° to 140°F (-30° to 60°C)	N/A
Storage Temperature	-40° to 158°F (-40° to 70°C)	N/A
Crush Resistance	125 lbf/in (22 N/mm)	FOTP-41
Impact Resistance	2.17 lbf-ft (2.94 N·m)	FOTP-25
Flexing	25 Cycles	FOTP-104
Twist Bend	Exceeds	FOTP-85

CommScope Outside Plant Fiber Optic 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	Catalog Number	Diameter Over Coax inch/mm	Diameter Over Fiber inch/mm	Minimum Bend Radius		Maximum Tensile Load		Weight	
				Loaded inch/cm	Unloaded inch/cm	Short term lbs./Newtons	Long term lbs./Newtons	lbs/ kft	kg/ km
<b>1 - 12 Fibers</b> 	O- <b>XXX</b> -DN-HY-F12NS/ <b>XYXXX</b> /F6SSBW/40T	0.30/7.62	0.26/6.60	10.4/26.4	5.2/13.2	300/1335	90/400	35	52.6

### Variables in the Catalog Number:

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

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

**6F** 62.5µm, FDDI Grade Multimode Fiber

**5M** LaserCore® 150, 50µm, Multimode Fiber

**5L** LaserCore® 300, 50µm, Multimode Fiber

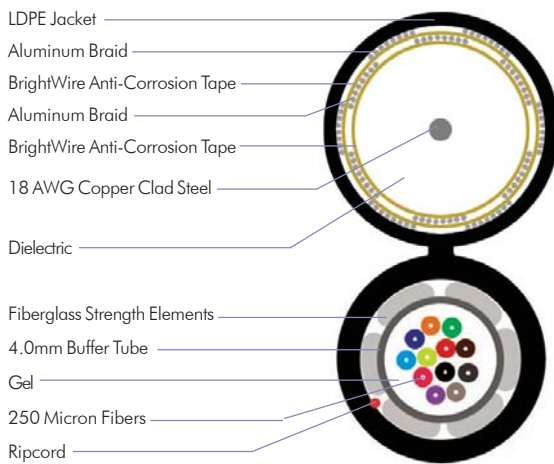
**5K** LaserCore® 500, 50µm, Multimode Fiber

**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 Fiber Coax Hybrid Cable

(12 Fiber Version Shown)



### Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40° to 158°F (-40° to 70°C)	FOTP-3
Installation Temperature	-22° to 140°F (-30° to 60°C)	N/A
Storage Temperature	-40° to 158°F (-40° to 70°C)	N/A
Crush Resistance	125 lbf/in (22 N/mm)	FOTP-41
Impact Resistance	2.17 lbf-ft (2.94 N·m)	FOTP-25
Flexing	25 Cycles	FOTP-104
Twist Bend	Exceeds	FOTP-85

CommScope Outside Plant Fiber Optic 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	Catalog Number	Diameter Over Coax inch/mm	Diameter Over Fiber inch/mm	Diameter Over Msg. inch/cm	Minimum Bend Radius		Maximum Tensile Load		Weight	
					Loaded inch/cm	Unloaded inch/cm	Short term lbs./Newtons	Long term lbs./Newtons	lbs/ kft	kg/ km
<b>1 - 12 Fibers</b>	O-XXX-DN-HY-F12NS/ XYXXX/F6SSBW/40T	0.30/7.62	0.26/6.60	0.13/3.4	10.4/26.4	5.2/13.2	300/1335	90/400	35	52.6



### Variables in the Catalog Number:

**XXX** = Total Fiber Count

**XY** = Fiber Grade

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

**6F** 62.5μm, FDDI Grade Multimode Fiber

**5M** LaserCore™ 150, 50μm, Multimode Fiber

**5L** LaserCore™ 300, 50μm, Multimode Fiber

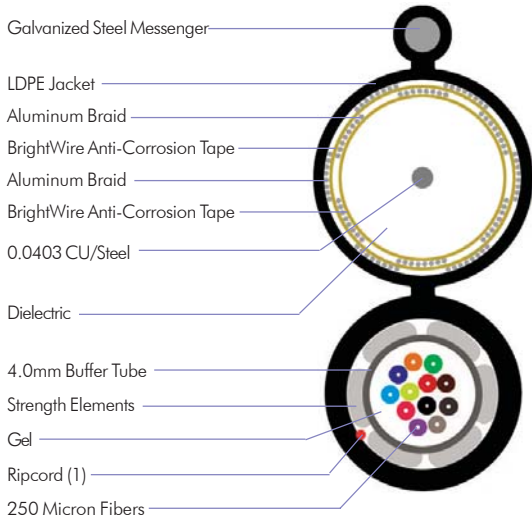
**5K** LaserCore™ 500, 50μm, Multimode Fiber

**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 158°F (-40° to 70°C)	FOTP-3
Installation Temperature	-22° to 140°F (-30° to 60°C)	N/A
Storage Temperature	-40° to 158°F (-40° to 70°C)	N/A
Crush Resistance	125 lbf/in (22 N/mm)	FOTP-41
Impact Resistance	2.17 lbf-ft (2.94 N·m)	FOTP-25
Flexing	25 Cycles	FOTP-104
Twist Bend	Exceeds	FOTP-85

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

### Sag and Tension Examples

NESC Loading Conditions	1% Installation Sag		2% Installation Sag		3% Installation Sag	
	Max Span ft (m)	Sag at NESC Loading (%)	Max Span ft (m)	Sag at NESC Loading (%)	Max Span ft (m)	Sag at NESC Loading (%)
Heavy	302 (92)	4.13	345 (105)	4.70	387 (118)	5.27
Medium	476 (145)	3.85	558 (170)	4.53	637 (194)	5.15
Light	532 (162)	3.73	640 (195)	4.47	728 (222)	5.10

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

Custom Sag and Tension Tables are available providing the recommended sag or tension. Please contact technical support.

Specifications are subject to change without notice.


# CommScope Hybrid Cable

## Fiber/11 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	Catalog Number	Diameter Over Coax inch/mm	Diameter Over Fiber inch/mm	Minimum Bend Radius		Maximum Tensile Load		Weight	
				Loaded inch/cm	Unloaded inch/cm	Short term lbs./Newtons	Long term lbs./Newtons	lbs/ kft	kg/ km
<b>1 - 12 Fibers</b> 	O- <b>XXX</b> -DN-HY-F12NS/ <b>XYXXX</b> /F11SSBW/40T	0.40/10.29	0.26/6.60	10.4/26.4	5.2/13.2	300/1335	90/400	80	119.0

### Variables in the Catalog Number:

**XXX** = Total Fiber Count

**XY** = Fiber Grade

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

**6F** 62.5µm, FDDI Grade Multimode Fiber

**5M** LaserCore® 150, 50µm, Multimode Fiber

**5L** LaserCore® 300, 50µm, Multimode Fiber

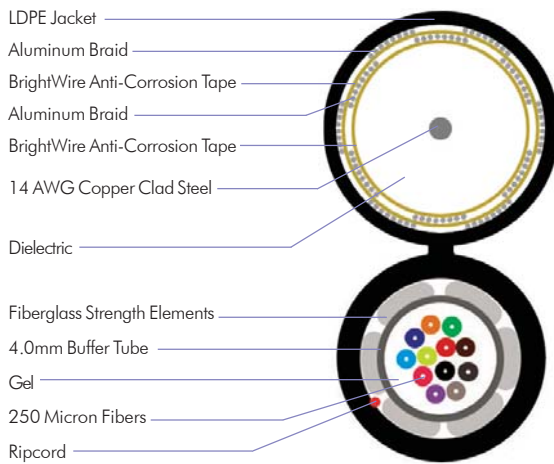
**5K** LaserCore® 500, 50µm, Multimode Fiber

**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 Linear Low Density Polyethylene

### Arid-Core Construction Fiber Coax Hybrid Cable

(12 Fiber Version Shown)



### Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40° to 158°F (-40° to 70°C)	FOTP-3
Installation Temperature	-22° to 140°F (-30° to 60°C)	N/A
Storage Temperature	-40° to 158°F (-40° to 70°C)	N/A
Crush Resistance	125 lbf/in (22 N/mm)	FOTP-41
Impact Resistance	2.17 lbf-ft (2.94 N·m)	FOTP-25
Flexing	25 Cycles	FOTP-104
Twist Bend	Exceeds	FOTP-85

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

Specifications are subject to change without notice.

# Hybrid Single Jacket Outdoor Cable

## Armored



Product Type/ Fiber Count/Pair Count	Catalog Number	Sub Units	Outer Diameter inch/mm	Minimum Bend Radius		Maximum Tensile Load		Weight	
				Loaded inch/cm	Unloaded inch/cm	Short Term lbs/meters	Long Term	lbs/ kft	kg/ km
<b>2 - 48 Fibers</b> <b>1-2 Pairs</b>	○-XXX-LA-HY-FZZNS/ XYXXX/NX22UTP	5	0.51/13.1	10.3/26.2	5.1/13.1	607/2700	180/800	103	154
<b>2 - 60 Fibers</b> <b>1-2 Pairs</b>	○-XXX-LA-HY-FZZNS/ XYXXX/NX22UTP	6	0.55/14.0	11.0/28.0	5.5/14.0	607/2700	180/800	119	178
<b>14 - 84 Fibers</b> <b>1-4 Pairs</b>	○-XXX-LA-HY-FZZNS/ XYXXX/NX22UTP	8	0.63/16.1	12.6/32.2	6.3/16.1	607/2700	180/800	154	229
<b>38 - 108 Fibers</b> <b>1-5 Pairs</b>	○-XXX-LA-HY-FZZNS/ XYXXX/NX22UTP	10	0.71/18.2	14.3/36.4	7.1/18.2	607/2700	180/800	184	274
<b>62 - 132 Fibers</b> <b>1-5 Pairs</b>	○-XXX-LA-HY-FZZNS/ XYXXX/NX22UTP	12	0.80/20.3	15.9/40.6	8.0/20.3	607/2700	180/800	219	327
<b>86 - 204 Fibers</b> <b>1-5 Pairs</b>	○-XXX-LA-HY-FZZNS/ XYXXX/NX22UTP	18	0.80/20.3	15.9/40.6	8.0/20.3	607/2700	180/800	212	316
<b>158 - 276 Fibers</b> <b>1-5 Pairs</b>	○-XXX-LA-HY-FZZNS/ XYXXX/NX22UTP	24	0.91/23.3	18.3/46.6	9.1/23.3	607/2700	180/800	273	407

### 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

**6F** 62.5µm, FDDI Grade Multimode Fiber  
**5M** LaserCore™ 150, 50µm, Multimode Fiber  
**5L** LaserCore™ 300, 50µm, Multimode Fiber  
**5K** LaserCore™ 500, 50µm, Multimode Fiber

**For Composites Only:** **aaa** is replaced with singlemode fiber count  
**AA** is replaced with singlemode type

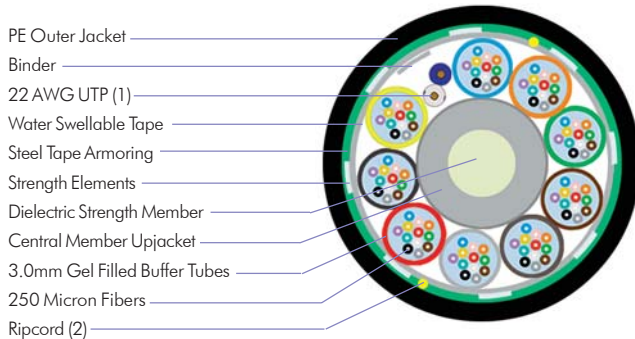
**bbb** is replaced by multimode fiber count  
**BB** is replaced by multimode type

**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  
Note: buffer tubes 13-24 repeat the color sequences with tracer stripe.

**Copper Twisted Pairs are identified with standard color coding:** 1/White/Blue, 2/White/Orange, 3/White/Green, 4/White/Brown, 5/White/Grey

### Hybrid Single Jacket Armored Cable

(108 Fiber Version Shown)



### Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40° to 158°F (-40° to 70°C)	FOTP-3
Installation Temperature	-22° to 140°F (-30° to 60°C)	N/A
Storage Temperature	-40° to 167°F (-40° to 75°C)	N/A
Crush Resistance	250 lbf/in (44 N/mm)	FOTP-41
Impact Resistance	Exceeds	FOTP-25
Flexing	25 Cycles	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

ANSI/ICEA S-87-640-1999 Standard for Optical Fiber Outside Plant Communications Cable

Specifications are subject to change without notice.



# Hybrid Single Jacket Outdoor Cable

## All-Dielectric



Product Type/ Fiber Count/Pair Count	Catalog Number	Sub Units	Outer Diameter inch/mm	Minimum Bend Radius		Maximum Tensile Load		Weight	
				Loaded inch/cm	Unloaded inch/cm	lbs/meters Short Term	Long Term	lbs/ kft	kg/ km
<b>2 - 48 Fibers</b> <b>1-2 Pairs</b>	O- <b>XXX</b> -LN-HY-F <b>ZZ</b> NS/ <b>XYXXX/NX22</b> UTP	5	0.46/11.6	9.1/23.2	4.6/11.6	607/2700	180/800	62	93
<b>2 - 60 Fibers</b> <b>1-2 Pairs</b>	O- <b>XXX</b> -LN-HY-F <b>ZZ</b> NS/ <b>XYXXX/NX22</b> UTP	6	0.49/12.6	9.9/25.2	4.9/12.6	607/2700	180/800	75	112
<b>14 - 84 Fibers</b> <b>1-4 Pairs</b>	O- <b>XXX</b> -LN-HY-F <b>ZZ</b> NS/ <b>XYXXX/NX22</b> UTP	8	0.57/14.6	11.5/29.2	5.7/14.6	607/2700	180/800	102	152
<b>38 - 108 Fibers</b> <b>1-5 Pairs</b>	O- <b>XXX</b> -LN-HY-F <b>ZZ</b> NS/ <b>XYXXX/NX22</b> UTP	10	0.66/16.7	13.1/33.4	6.6/16.7	607/2700	180/800	126	188
<b>62 - 132 Fibers</b> <b>1-5 Pairs</b>	O- <b>XXX</b> -LN-HY-F <b>ZZ</b> NS/ <b>XYXXX/NX22</b> UTP	12	0.74/18.8	14.8/37.6	7.4/18.8	607/2700	180/800	154	229
<b>86 - 204 Fibers</b> <b>1-5 Pairs</b>	O- <b>XXX</b> -LN-HY-F <b>ZZ</b> NS/ <b>XYXXX/NX22</b> UTP	18	0.74/18.8	14.8/37.6	7.4/18.8	607/2700	180/800	146	218
<b>158 - 276 Fibers</b> <b>1-5 Pairs</b>	O- <b>XXX</b> -LN-HY-F <b>ZZ</b> NS/ <b>XYXXX/NX22</b> UTP	24	0.86/18.8	17.1/43.6	8.6/21.8	607/2700	180/800	197	294



### 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

**6F** 62.5µm, FDDI Grade Multimode Fiber  
**5M** LaserCore™ 150, 50µm, Multimode Fiber  
**5L** LaserCore™ 300, 50µm, Multimode Fiber  
**5K** LaserCore™ 500, 50µm, Multimode Fiber

**For Composites Only:** **aaa** is replaced with singlemode fiber count  
**AA** is replaced with singlemode type

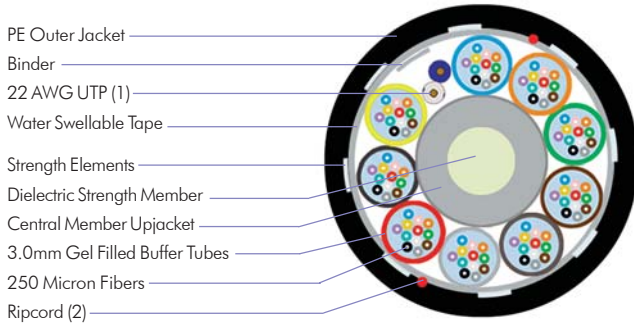
**bbb** is replaced by multimode fiber count  
**BB** is replaced by multimode type

**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  
Note: buffer tubes 13-24 repeat the color sequences with tracer stripe.

**Copper Twisted Pairs are identified with standard color coding:** 1/White/Blue, 2/White Orange, 3/White/Green, 4/White/Brown, 5/White/Grey

### Hybrid Single Jacket All-Dielectric Cable

(108 Fiber Version Shown)



### Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40° to 158°F (-40° to 70°C)	FOTP-3
Installation Temperature	-22° to 140°F (-30° to 60°C)	N/A
Storage Temperature	-40° to 167°F (-40° to 75°C)	N/A
Crush Resistance	250 lbf/in (44 N/mm)	FOTP-41
Impact Resistance	Exceeds	FOTP-25
Flexing	25 Cycles	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


ANSI/ICEA S-87-640-1999 Standard for Optical Fiber Outside Plant Communications Cable

Specifications are subject to change without notice.

# Hybrid Single Jacket Outdoor Cable

## All-Dielectric



Product Type/ Fiber Count/Conductor Count	Catalog Number	Sub Units	Outer Diameter inch/mm	Minimum Bend Radius		Maximum Tensile Load		Weight	
				Loaded inch/cm	Unloaded inch/cm	Short Term lbs/meters	Long Term	lbs/ kft	kg/ km
<b>2 - 48 Fibers</b> <b>1-4 Conductors</b> 	O- <b>XXX</b> -LN-HY-FZZNS/ <b>XYXXX/N</b> X12AWG	5	0.46/11.6	9.1/23.2	4.6/11.6	607/2700	180/800	75	112
<b>50 - 60 Fibers</b> <b>1-4 Conductors</b>	O- <b>XXX</b> -LN-HY-FZZNS/ <b>XYXXX/N</b> X12AWG	6	0.49/12.6	9.9/25.2	4.9/12.6	607/2700	180/800	89	132
<b>62 - 84 Fibers</b> <b>1-4 Conductors</b>	O- <b>XXX</b> -LN-HY-FZZNS/ <b>XYXXX/N</b> X12AWG	8	0.57/14.6	11.5/29.2	5.7/14.6	607/2700	180/800	115	172
<b>86 - 108 Fibers</b> <b>1-4 Conductors</b>	O- <b>XXX</b> -LN-HY-FZZNS/ <b>XYXXX/N</b> X12AWG	10	0.66/16.7	13.1/33.4	6.6/16.7	607/2700	180/800	139	208
<b>110 - 132 Fibers</b> <b>1-4 Conductors</b>	O- <b>XXX</b> -LN-HY-FZZNS/ <b>XYXXX/N</b> X12AWG	12	0.74/18.8	14.8/37.6	7.4/18.8	607/2700	180/800	167	249
<b>134 - 204 Fibers</b> <b>1-4 Conductors</b>	O- <b>XXX</b> -LN-HY-FZZNS/ <b>XYXXX/N</b> X12AWG	18	0.64/16.3	12.8/32.6	6.4/16.3	607/2700	180/800	119	178
<b>206 - 276 Fibers</b> <b>1-4 Conductors</b>	O- <b>XXX</b> -LN-HY-FZZNS/ <b>XYXXX/N</b> X12AWG	24	0.86/21.8	17.1/43.6	8.6/21.8	607/2700	180/800	211	314

### 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

**6F** 62.5µm, FDDI Grade Multimode Fiber  
**5M** LaserCore™ 150, 50µm, Multimode Fiber  
**5L** LaserCore™ 300, 50µm, Multimode Fiber  
**5K** LaserCore™ 500, 50µm, Multimode Fiber

**For Composites Only:** **aaa** is replaced with singlemode fiber count  
**AA** is replaced with singlemode type

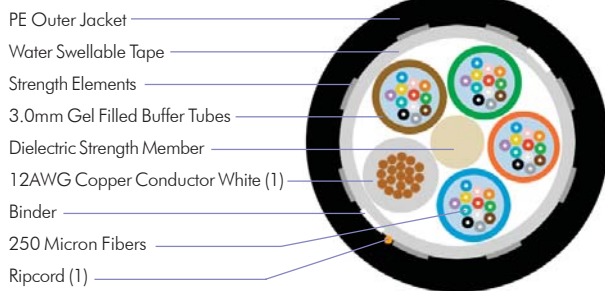
**bbb** is replaced by multimode fiber count  
**BB** is replaced by multimode type

**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  
Note: buffer tubes 13-23 repeat the color sequences with tracer stripe.

**Copper Conductors are identified with standard color coding:** 1/Red, 2/Black, 3/Green, 4/Brown.

### Hybrid Single Jacket All-Dielectric Cable

(108 Fiber Version Shown)



### Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40° to 158°F (-40° to 70°C)	FOTP-3
Installation Temperature	-22° to 140°F (-30° to 60°C)	N/A
Storage Temperature	-40° to 167°F (-40° to 75°C)	N/A
Crush Resistance	250 lbf/in (44 N/mm)	FOTP-41
Impact Resistance	Exceeds	FOTP-25
Flexing	25 Cycles	FOTP-104
Twist Bend	Exceeds	FOTP-85

CommScope Outside Plant Fiber Optic cables are qualified to the requirements of ANSI/ICEA S-87-640-1999 Standard for Optical Fiber Outside Plant Communications Cable  
Telcordia GR-20-CORE, Issue 2

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:

#### Mechanical Properties

- 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	Minimum Bend Radius		Maximum Tensile Load		Weight	
			Loaded	Unloaded	Short term	Long term	lbs/kft	kg/km
<b>2 Fibers</b> (no central member)	Z-ØØ2-DS-XY-FSUBK	0.15/3.8	3.0/7.7	1.5/3.8	225/1001	68/300	7.8	11.6
<b>4 Fibers</b> (no central member)	Z-ØØ4-DS-XY-FSUBK	0.20/5.1	4.0/10.1	2.0/5.1	300/1335	90/400	13.5	20.1
<b>6 Fibers</b>	Z-ØØ6-DS-XY-FSUBK	0.22/5.5	4.4/11.1	2.2/5.5	300/1335	90/400	17.6	26.3
<b>8 Fibers</b>	Z-ØØ8-DS-XY-FSUBK	0.25/6.3	5.0/12.6	2.5/6.3	300/1335	90/400	23.7	35.3
<b>12 Fibers</b> 	Z-Ø12-DS-XY-FSUBK	0.28/7.2	5.6/14.2	2.8/7.1	300/1335	90/400	32.6	48.6
<b>18 Fibers</b>	Z-Ø18-DS-XY-FSUBK	0.31/7.9	6.2/15.7	3.1/7.9	300/1335	90/400	37.0	55.0
<b>24 Fibers</b>	Z-Ø24-DS-XY-FSUBK	0.34/8.7	6.8/17.4	3.4/8.7	300/1335	90/400	45.2	67.3
<b>36 Fibers</b>	Z-Ø36-DS-XY-FMUBK	0.70/17.8	14.0/35.6	7.3/18.5	800/3560	240/1068	162.4	241.6
<b>48 Fibers</b>	Z-Ø48-DS-XY-FMUBK	0.80/20.2	16.0/40.6	7.9/20.0	800/3560	240/1068	206.6	307.4
<b>60 Fibers</b>	Z-Ø60-DS-XY-FMUBK	0.87/22.0	17.4/44.2	8.6/21.8	1000/4450	300/1335	260.7	387.9
<b>72 Fibers</b> 	Z-Ø72-DS-XY-FMUBK	0.95/24.1	19.0/48.2	4/23.9	1000/4450	300/1335	320.5	477.0
<b>Singlemode/Multimode Composite (4 - 72 Fibers)</b>	Z-ØØØ-DS-CM-FSUBK/AAaaa/BBbbb Z-ØØØ-DS-CM-FMUBK/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

**6F** 62.5µm, FDDI Grade Multimode Fiber

**5M** LaserCore™ 150, 50µm, Multimode Fiber

**5L** LaserCore™ 300, 50µm, Multimode Fiber

**5K** LaserCore™ 500, 50µm, Multimode Fiber

**For Composites Only:**

**aaa** is replaced with singlemode fiber count

**AA** is replaced with singlemode type

**bbb** is replaced by multimode fiber count

**BB** is replaced by multimode type

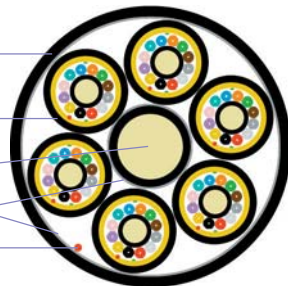
**Tight Buffer/Fiber Identification colors:** 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

**Jacket Color:** UV Stabilized Black

## Triathlon LSZH Indoor/Outdoor Riser-Rated Distribution Cable (Multi-Unit)

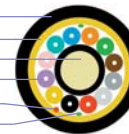
(72 Fiber Version Shown)

- Low Smoke/Zero Halogen (LSZH) Outer Jacket
- Triathlon® Subunit with Arid-Core®
- Central Strength Member
- Water Blocking Tapes
- Ripcord



## 12 Fiber Unit (Single Unit)

- LSZH Jacket
- Aramid Yarn
- Central Strength Member
- 900 Micron Tight-Buffered 250 Micron Fiber
- Ripcord
- Water Blocking Thread



## Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40° to 158°F (-40° to 70°C)	FOTP-3
Installation Temperature	-22° to 158°F (-30° to 70°C)	N/A
Storage Temperature	-40° to 167°F (-40° to 75°C)	N/A
Crush Resistance	Exceeds 126 lbf/in (22 N/mm)	FOTP-41
Impact Resistance	Exceeds 4.34 lb-ft (5.88 N·m)	FOTP-25
Flexing	Exceeds 100 cycles	FOTP-104
Twist Bend	Exceeds	FOTP-85

CommScope Fiber Optic Premises cables are qualified to the requirements of Telcordia GR-409-CORE, Issue 1. Water penetration performance meets the requirements of Telcordia GR-20-CORE, Issue 2.

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 and zipcord cables are 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
<b>Simplex/1.6mm</b> 	Z-ØØ1-SP-XY-F16BK	0.067/1.70	2.0/5.0	1.2/3.0	35/156	11/47	1.9	2.9
<b>Simplex/2.5mm</b>	Z-ØØ1-SP-XY-F25BK	0.098/2.50	2.0/5.0	1.2/3.0	60/267	18/80	4.5	6.7
<b>Simplex/2.9mm</b>	Z-ØØ1-SP-XY-F29BK	0.114/2.90	2.3/5.8	1.2/3.0	60/267	18/80	6.2	9.2
<b>Zipcord/1.6mm</b> 	Z-ØØ2-ZC-XY-F16BK	0.067 x 0.138/ 1.70 x 3.50	2.0/5.0	1.2/3.0	70/311	21/93	3.8	5.6
<b>Zipcord/2.5mm</b>	Z-ØØ2-ZC-XY-F25BK	0.098 x 0.201/ 2.50 x 5.10	2.0/5.0	1.2/3.0	90/400	27/120	9.0	13.4
<b>Zipcord/2.9mm</b>	Z-ØØ2-ZC-XY-F29BK	0.114 x 0.232/ 2.90 x 5.90	2.3/5.8	1.2/3.0	90/400	27/120	12.4	18.5
<b>Interconnect/2.9mm</b> 	Z-ØØ2-IC-XY-F29BK	0.114/2.90	2.3/5.8	1.2/3.0	70/311	21/93	5.0	7.4

### Variables in the Catalog Number:

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

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

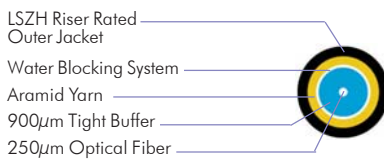
**6F** 62.5µm, FDDI Grade Multimode Fiber  
**5M** LaserCore® 150, 50µm, Multimode Fiber  
**5L** LaserCore® 300, 50µm, Multimode Fiber  
**5K** LaserCore® 500, 50µm, Multimode Fiber

**For Composites Only:** **aaa** is replaced with singlemode fiber count  
**AA** is replaced with singlemode type

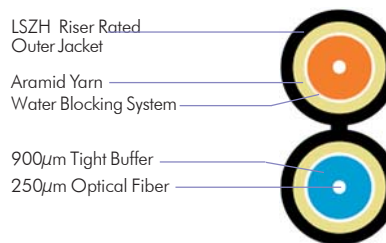
**bbb** is replaced by multimode fiber count  
**BB** is replaced by multimode type

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

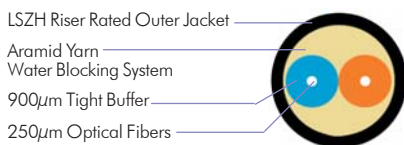
## Triathlon Indoor/Outdoor LSZH Simplex Cable



## Triathlon Indoor/Outdoor LSZH Zipcord Cable



## Triathlon Indoor/Outdoor LSZH 2-Fiber Interconnect Cable



## Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40° to 158°F (-40° to 70°C)	FOTP-3
Installation Temperature	-22° to 158°F (-30° to 70°C)	N/A
Storage Temperature	-40° to 167°F (-40° to 75°C)	N/A
Crush Resistance	Exceeds 57 lbf/in (10 N/mm)	FOTP-41
Impact Resistance	Exceeds 0.54 lbf-ft (0.74 N·m)	FOTP-25
Flexing	Exceeds 300 cycles	FOTP-104
Twist Bend	Exceeds	FOTP-85

CommScope Fiber Optic Premise cables are qualified to the requirements of Telcordia GR-409-CORE, Issue 1. Water penetration performance meets the requirements of Telcordia GR-20-CORE, Issue2.

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		Maximum Tensile Load		Weight	
				Loaded inch/cm	Unloaded inch/cm	Short Term lbs/meters	Long Term lbs/meters	lbs/ kft	kg/ km
<b>Single Jacket 2 - 60 Fibers</b>	R- <b>XXX</b> -LN- <b>XY</b> -F12BK	5	0.49/12.6	9.9/25.2	4.9/12.6	607/2700	180/800	99	148
<b>62 - 72 Fibers</b>	R- <b>XXX</b> -LN- <b>XY</b> -F12BK	6	0.53/13.6	10.7/27.2	5.3/13.6	607/2700	180/800	116	173
<b>74 - 96 Fibers</b>	R- <b>XXX</b> -LN- <b>XY</b> -F12BK	8	0.62/15.7	12.3/31.4	6.2/15.7	607/2700	180/800	152	226
<b>98 - 120 Fibers</b>	R- <b>XXX</b> -LN- <b>XY</b> -F12BK	10	0.69/17.7	13.9/35.4	6.9/17.7	607/2700	180/800	192	287
<b>122 - 144 Fibers</b>	R- <b>XXX</b> -LN- <b>XY</b> -F12BK	12	0.78/19.8	15.5/39.6	7.8/19.8	607/2700	180/800	239	357
<b>146- 216 Fibers</b>	R- <b>XXX</b> -LN- <b>XY</b> -F12BK	18	0.80/20.5	16.1/41.0	8.0/20.5	607/2700	180/800	229	341
<b>218- 288 Fibers</b>	R- <b>XXX</b> -LN- <b>XY</b> -F12BK	24	0.92/23.4	18.4/46.8	9.2/23.4	607/2700	180/800	298	445
<b>Singlemode/Multimode Composite (4-288 Fibers)</b>	R- <b>XXX</b> -LN- <b>XY</b> -F12BK/ <b>AAaaa/BBbbb</b>	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

**6F** 62.5µm, FDDI Grade Multimode Fiber  
**5M** LaserCore® 150, 50µm, Multimode Fiber  
**5L** LaserCore® 300, 50µm, Multimode Fiber  
**5K** LaserCore® 500, 50µm, Multimode Fiber

**For Composites Only:** **aaa** is replaced with singlemode fiber count  
**AA** is replaced with singlemode type

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

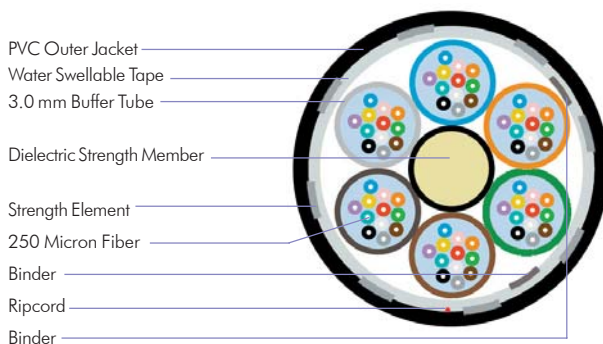
**Tight Buffer/Fiber Identification colors:** 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

**Buffer Tubes 13 - 18 repeat color sequence with tracer stripes**

**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 158°F (-40° to 70°C)	FOTP-3
Installation Temperature	-22° to 140°F (-30° to 60°C)	N/A
Storage Temperature	-40° to 167°F (-40° to 75°C)	N/A
Crush Resistance	250 lbf/in (44 N/mm)	FOTP-41
Impact Resistance	4.34 lbf-ft (5.88 N·m)	FOTP-25
Flexing	25 cycles	FOTP-104
Twist Bend	Exceeds	FOTP-85

CommScope Indoor/Outdoor Fiber Optic Cables are qualified to the requirements of ANSI/ICEA S-104-696-2001 Standard for Indoor-Outdoor Optical Fiber Cable 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 plenum (OFNP) 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		Maximum Tensile Load		Weight	
				Loaded inch/cm	Unloaded inch/cm	Short Term lbs/meters	Long Term lbs/meters	lbs/ kft	kg/ km
<b>Single Jacket 2 - 60 Fibers</b>	P- <b>XXX</b> -LN- <b>XY</b> -F12BK	5	0.44/11.1	8.8/22.2	4.4/11.1	600/2670	180/801	82	122
<b>61 - 72 Fibers</b>	P- <b>XXX</b> -LN- <b>XY</b> -F12BK	6	0.47/12.0	9.4/23.9	4.7/12.0	600/2670	180/801	95	142
<b>Singlemode/Multimode Composite (4-72 Fibers)</b>	P- <b>XXX</b> -LN-CM-F12BK/ <b>AAaaa</b> / <b>BBbbb</b> 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

**6F** 62.5µm, FDDI Grade Multimode Fiber

**5M** LaserCore® 150, 50µm, Multimode Fiber

**5L** LaserCore® 300, 50µm, Multimode Fiber

**5K** LaserCore® 500, 50µm, Multimode Fiber

**For Composites Only:**

**aaa** is replaced with singlemode fiber count

**AA** is replaced with singlemode type

**bbb** is replaced by multimode fiber count

**BB** is replaced by multimode type

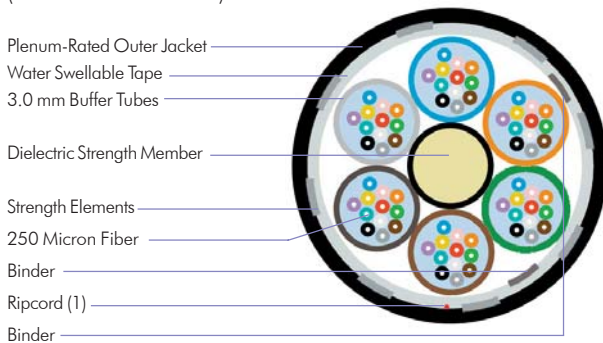
**Buffer Tubes/Fiber Identification colors:** 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

**Buffer Tubes 13 - 18 repeat color sequence with tracer stripes**

**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 158°F (-40° to 70°C)	FOTP-3
Installation Temperature	-22° to 140°F (-30° to 60°C)	N/A
Storage Temperature	-40° to 167°F (-40° to 75°C)	N/A
Crush Resistance	250 lbf/in (44 N/mm)	FOTP-41
Impact Resistance	Exceeds 4.34 lb-ft (5.88 N-m)	FOTP-25
Flexing	Exceeds 25 cycles	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.

### 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		Maximum Tensile Load lbs/meters		Weight	
				Loaded inch/cm	Unloaded inch/cm	Short Term	Long Term	lbs/ kft	kg/ km
<b>Single Jacket</b> <b>2-24 Fibers, 4mm Tube</b> 	R- <b>XXX</b> -CN- <b>XY</b> -F12BK	2	0.40/10.3	8.1/20.6	4.0/10.3	607/2700	180/800	89	132
<b>Singlemode/Multimode Composite (4-24 Fibers)</b>	R- <b>XXX</b> -CN-CM-F12BK/ <b>AA</b> <b>aaa</b> / <b>BB</b> <b>bbb</b>	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

**6F** 62.5µm, FDDI Grade Multimode Fiber

**5M** LaserCore® 150, 50µm, Multimode Fiber

**5L** LaserCore® 300, 50µm, Multimode Fiber

**5K** LaserCore® 500, 50µm, Multimode Fiber

#### For Composites Only:

**aaa** is replaced with singlemode fiber count

**AA** is replaced with singlemode type

**bbb** is replaced by multimode fiber count

**BB** is replaced by multimode type

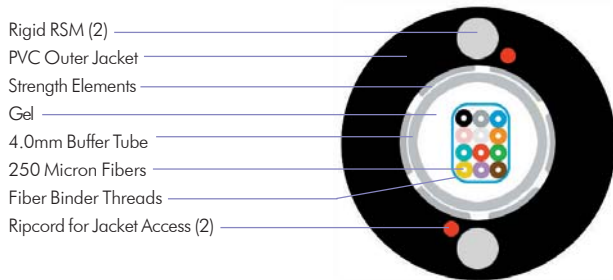
#### Identification Threads/ Fiber Colors:

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 158°F (-40° to 70°C)	FOTP-3
Installation Temperature	-22° to 140°F (-30° to 60°C)	N/A
Storage Temperature	-40° to 167°F (-40° to 75°C)	N/A
Crush Resistance	250 lbf/in (44 N/mm)	FOTP-41
Impact Resistance	4.34 lb-ft (5.88 N·m)	FOTP-25
Flexing	25 cycles	FOTP-104
Twist Bend	Exceeds	FOTP-85

CommScope Indoor/Outdoor Fiber Optic Cables are qualified to the requirements of ANSI/ICEA S-104-696-2001 Standard for Indoor-Outdoor Optical Fiber Cables Telcordia GR-409-CORE, Section 6.

Specifications subject to change without notice.



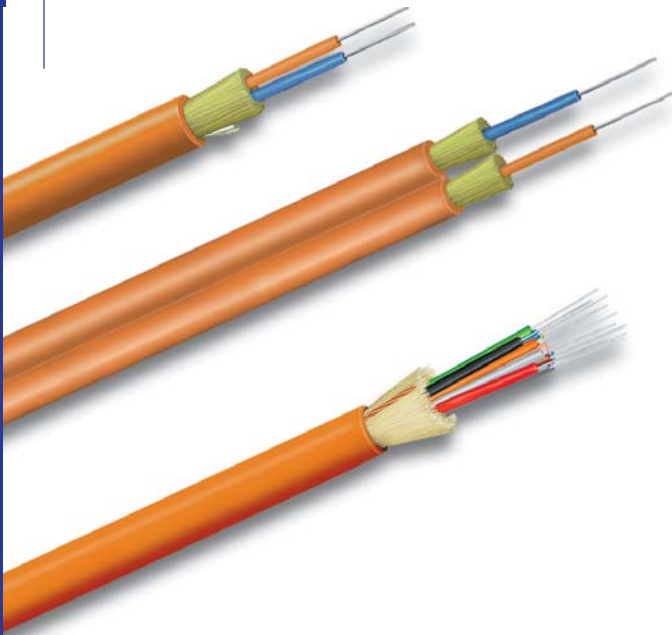
## CommScope Premise Cables

### 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 72 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.

- 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		Maximum Tensile Load		Weight		
			Loaded inch/cm	Unloaded inch/cm	Short term lbs./ Newtons	Long term lbs./Newtons	lbs/ kft	kg/ km	
<b>2 Fibers</b>	R-ØØ2-DS- <b>XY</b> -FSU <b>ZZ</b>	0.16/4.1	3.2/8.1	1.6/4.1	225/1001	68/300	8.6	12.9	
<b>4 Fibers</b>	R-ØØ4-DS- <b>XY</b> -FSU <b>ZZ</b>	0.19/4.8	3.8/9.5	1.9/4.8	300/1335	90/400	13.1	19.4	
<b>6 Fibers</b>	R-ØØ6-DS- <b>XY</b> -FSU <b>ZZ</b>	0.20/5.1	4.1/10.3	2.0/5.1	300/1335	90/400	15.2	22.7	
<b>8 Fibers</b>	R-ØØ8-DS- <b>XY</b> -FSU <b>ZZ</b>	0.22/5.5	4.3/11.0	2.2/5.5	300/1335	90/400	17.2	25.7	
<b>12 Fibers</b> 	R-Ø12-DS- <b>XY</b> -FSU <b>ZZ</b>	0.24/6.0	4.7/12.1	2.4/6.0	300/1335	90/400	21.7	32.2	
<b>18 Fibers</b>	R-Ø18-DS- <b>XY</b> -FSU <b>ZZ</b>	0.30/7.7	6.0/15.4	3.0/7.7	300/1335	90/400	32.1	47.7	
<b>24 Fibers</b>	R-Ø24-DS- <b>XY</b> -FSU <b>ZZ</b>	0.33/8.4	6.6/16.7	3.3/8.4	300/1335	90/400	37.9	56.4	
<b>36 Fibers</b> (3 subunits)	R-Ø36-DS- <b>XY</b> -FMU <b>ZZ</b>	0.58/14.6	11.5/29.3	5.6/14.2	800/3560	240/1068	112.0	167.0	
<b>48 Fibers</b> (4 subunits)	R-Ø48-DS- <b>XY</b> -FMU <b>ZZ</b>	0.63/16.1	12.7/32.2	6.3/16.1	800/3560	240/1068	143.0	212.0	
<b>60 Fibers</b> (5 subunits)	R-Ø60-DS- <b>XY</b> -FMU <b>ZZ</b>	0.71/18.0	14.2/36.1	7.1/18.0	1000/4450	300/1335	188.0	279.0	
<b>72 Fibers</b> (6 subunits)	R-Ø72-DS- <b>XY</b> -FMU <b>ZZ</b>	0.79/20.0	15.8/40.1	7.9/20.0	1000/4450	300/1335	232.0	345.0	
<b>96 Fibers</b> (8 subunits)	R-Ø96-DS- <b>XY</b> -FMU <b>ZZ</b>	0.93/23.7	18.7/47.5	9.3/23.7	1000/4450	300/1335	337.0	502.0	
<b>144 Fibers</b> (12 subunits)	R-144-DS- <b>XY</b> -FMU <b>ZZ</b>	1.03/26.1	20.5/52.2	10.3/26.1	1000/4450	300/1335	350.0	522.0	
<b>Singlemode/Multimode Composite (4 - 144 Fibers)</b>	R- <b>XXX</b> -DS-CM-FSU <b>OR/AAaaaa/BBbbb</b> R- <b>XXX</b> -DS-CM-FMU <b>OR/AAaaaa/BBbbb</b>								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

**6F** 62.5µm, FDDI Grade Multimode Fiber

**5M** LaserCore™ 150, 50µm, Multimode Fiber

**5L** LaserCore™ 300, 50µm, Multimode Fiber

**5K** LaserCore™ 500, 50µm, Multimode Fiber

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

**OR** (Orange - Multimode or Composite Cable)

**AQ** (Aqua - LaserCore™ Cable)

**For Composites Only:** **aaa** is replaced with singlemode fiber count

**AA** is replaced with singlemode type

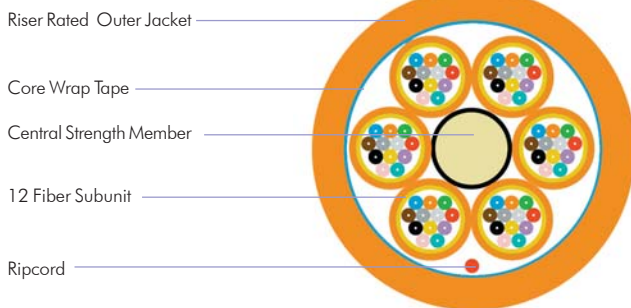
**bbb** is replaced by multimode fiber count

**BB** is replaced by multimode type

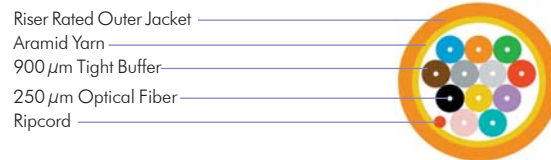
**Tight Buffer/Fiber Colors:** 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua  
Subunits are numbered for easy identification

### Riser Distribution Cable (Multi-Unit)

(72 and 12 Fiber Versions Shown)



### 12 Fiber Unit (Single Unit)



### Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-4° to 158°F (-20° to 70°C)	FOTP-3
Installation Temperature	-4° to 158°F (-20° to 70°C)	N/A
Storage Temperature	-40° to 158°F (-40° to 70°C)	N/A
Crush Resistance	Exceeds 57 lbf/in (10N/mm)	FOTP-41
Impact Resistance	Exceeds 4.34 lb-ft (5.88 N·m)	FOTP-25
Flexing	Exceeds 100 cycles	FOTP-104
Twist Bend	Exceeds	FOTP-85

CommScope Fiber Optic Premises Cables are qualified to the requirements of Telcordia GR-409-CORE, Issue 1

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	Minimum Bend Radius		Maximum Tensile Load		Weight	
			Loaded inch/cm	Unloaded inch/cm	Short term lbs./ Newtons	Long term lbs./Newtons	lbs/ kft	kg/ km
<b>2 Fibers</b>	P-Ø02-DS- <b>XY</b> -FSU <b>ZZ</b>	0.15/3.9	3.1/7.8	1.5/3.9	225/1001	68/300	8.8	13.1
<b>4 Fibers</b>	P-Ø04-DS- <b>XY</b> -FSU <b>ZZ</b>	0.17/4.4	3.4/8.7	1.7/4.4	300/1335	90/400	12.2	18.2
<b>6 Fibers</b>	P-Ø06-DS- <b>XY</b> -FSU <b>ZZ</b>	0.19/4.8	3.8/9.7	1.9/4.8	300/1335	90/400	15.1	22.5
<b>8 Fibers</b>	P-Ø08-DS- <b>XY</b> -FSU <b>ZZ</b>	0.20/5.1	4.0/10.2	2.0/5.1	300/1335	90/400	16.8	24.9
<b>12 Fibers</b>	P-Ø12-DS- <b>XY</b> -FSU <b>ZZ</b>	0.23/5.8	4.6/11.7	2.3/5.8	300/1335	90/400	20.8	30.9
<b>18 Fibers</b>	P-Ø18-DS- <b>XY</b> -FSU <b>ZZ</b>	0.31/7.9	6.2/15.8	3.1/7.9	300/1335	90/400	40.9	60.9
<b>24 Fibers</b>	P-Ø24-DS- <b>XY</b> -FSU <b>ZZ</b>	0.33/8.5	6.7/16.9	3.3/8.5	300/1335	90/400	47.3	70.4
<b>36 Fibers</b> (3 subunits)	P-Ø36-DS- <b>XY</b> -FMU <b>ZZ</b>	0.54/13.7	10.8/27.4	5.4/13.7	800/3560	240/1068	128.0	191.0
<b>48 Fibers</b> (4 subunits)	P-Ø48-DS- <b>XY</b> -FMU <b>ZZ</b>	0.59/15.1	11.9/30.2	5.9/15.1	800/3560	240/1068	138.0	205.0
<b>60 Fibers</b> (5 subunits)	P-Ø60-DS- <b>XY</b> -FMU <b>ZZ</b>	0.68/17.2	13.6/34.4	6.8/17.2	1000/4450	300/1335	190.0	282.0
<b>72 Fibers</b> (6 subunits)	P-Ø72-DS- <b>XY</b> -FMU <b>ZZ</b>	0.75/19.1	15.1/38.2	7.5/19.1	1000/4450	300/1335	237.0	353.0
<b>96 Fibers</b> (8 subunits)	P-Ø96-DS- <b>XY</b> -FMU <b>ZZ</b>	0.90/23.0	18.1/45.9	9.0/23.0	1000/4450	300/1335	361.0	537.0
<b>144 Fibers</b> (12 subunits)	P-144-DS- <b>XY</b> -FMU <b>ZZ</b>	0-.95/24.1	19.0/48.2	9.5/24.1	1000/4450	300/1335	331.0	492.0

**Singlemode/Multimode Composite (4 - 144 Fibers)** P-**XXX**-DS-CM-FSUOR/**AAaaa**/**BBbbb** P-**XXX**-DS-CM-FMUOR/**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

**6F** 62.5µm, FDDI Grade Multimode Fiber

**5M** LaserCore™ 150, 50µm, Multimode Fiber

**5L** LaserCore™ 300, 50µm, Multimode Fiber

**5K** LaserCore™ 500, 50µm, Multimode Fiber

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

**OR** (Orange - Multimode or Composite Cable)

**AQ** (Aqua - LaserCore™ Cable)

**For Composites Only:** **aaa** is replaced with singlemode fiber count  
**AA** is replaced with singlemode type

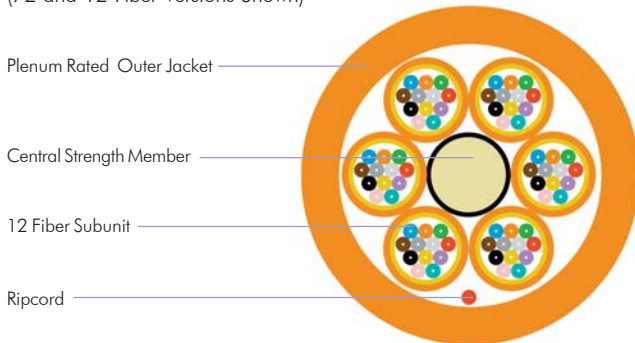
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**BB** is replaced by multimode type

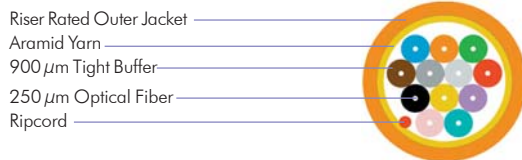
**Tight Buffer/Fiber Colors:** 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua  
Subunits are numbered for easy identification

### Plenum Distribution Cable (Multi-Unit)

(72 and 12 Fiber Versions Shown)



### 12 Fiber Unit (Single Unit)



### Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-4° to 158°F (-20° to 70°C)	FOTP-3
Installation Temperature	32° to 158°F (0° to 70°C)	N/A
Storage Temperature	-40° to 158°F (-40° to 70°C)	N/A
Crush Resistance	Exceeds 57 lbf/in (10N/mm)	FOTP-41
Impact Resistance	Exceeds 4.34 lb-ft (5.88 N·m)	FOTP-25
Flexing	Exceeds 100 cycles	FOTP-104
Twist Bend	Exceeds	FOTP-85

CommScope Fiber Optic Premises Cables are qualified to the requirements of Telcordia GR-409-CORE, Issue 1




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 and zipcord cables are 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/1.6mm	R-ØØ1-SP-XY-F16ZZ	0.067/1.70	2.0/5.0	1.2/3.0	35/156	11/47	1.8	2.7
Simplex/2.0mm	R-ØØ1-SP-XY-F20ZZ	0.079/2.00	2.0/5.0	1.2/3.0	50/222	15/67	2.8	4.1
Simplex/2.5mm	R-ØØ1-SP-XY-F25ZZ	0.098/2.50	2.0/5.0	1.2/3.0	60/267	18/80	4.2	6.3
Simplex/2.9mm	R-ØØ1-SP-XY-F29ZZ	0.114/2.90	2.3/5.8	1.2/3.0	60/267	18/80	5.8	8.7
 Zipcord/1.6mm	R-ØØ2-ZC-XY-F16ZZ	0.067 x 0.138/ 1.70 x 3.50	2.0/5.0	1.2/3.0	70/311	21/93	3.7	5.5
Zipcord/2.0mm	R-ØØ2-ZC-XY-F20ZZ	0.079 x 0.161/ 2.00 x 4.10	2.0/5.0	1.2/3.0	80/356	24/107	5.4	8.0
Zipcord/2.5mm	R-ØØ2-ZC-XY-F25ZZ	0.098 x 0.201/ 2.50 x 5.10	2.0/5.0	1.2/3.0	90/400	27/120	8.5	12.6
Zipcord/2.9mm	R-ØØ2-ZC-XY-F29ZZ	0.114 x 0.232/ 2.90 x 5.90	2.3/5.8	1.2/3.0	90/400	27/120	11.7	17.4
 Interconnect /2.9mm	R-ØØ2-IC-XY-F29ZZ	0.114/2.90	2.3/5.8	1.2/3.0	70/311	21/93	4.7	7.0

### Variables in the Catalog Number:

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

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

**6F** 62.5µm, FDDI Grade Multimode Fiber

**5M** LaserCore® 150, 50µm, Multimode Fiber

**5L** LaserCore® 300, 50µm, Multimode Fiber

**5K** LaserCore® 500, 50µm, Multimode Fiber

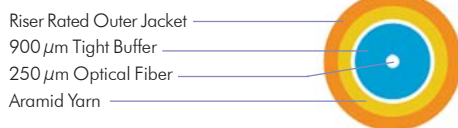
**ZZ** = Standard Jacket Color **YL** (Yellow - Singlemode Cable)

**OR** (Orange - Multimode or Composite Cable)

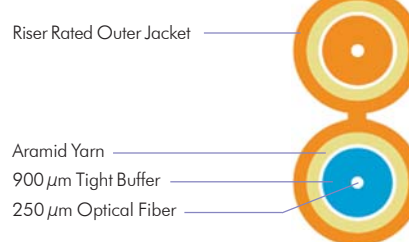
**AQ** (Aqua - LaserCore® Cable)

**Fiber Identification Colors:** 1/Blue, 2/Orange

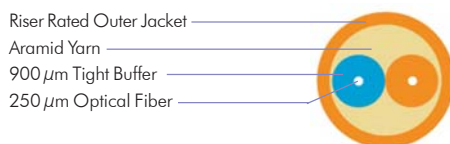
### Riser Simplex Cable



### Riser Zipcord Cable



### Riser 2-Fiber Interconnect Cable



### Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-4° to 158°F (-20° to 70°C)	FOTP-3
Installation Temperature	-4° to 158°F (-20° to 70°C)	N/A
Storage Temperature	-40° to 158°F (-40° to 70°C)	N/A
Crush Resistance	Exceeds 57 lbf/in (10N/mm)	FOTP-41
Impact Resistance	Exceeds 0.54 lb-ft (0.74 N·m)	FOTP-25
Flexing	Exceeds 300 cycles	FOTP-104
Twist Bend	Exceeds	FOTP-85

CommScope Fiber Optic Premises Cables are qualified to the requirements of Telcordia GR-409-CORE, Issue 1




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 and zipcord cables are 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		Maximum Tensile Load		Weight	
			Loaded inch/cm	Unloaded inch/cm	Short term lbs./ Newtons	Long term lbs./Newtons	lbs/ kft	kg/ km
<b>Simplex/1.6mm</b> 	P-ØØ1-SP-XY-F16ZZ	0.067/1.70	2.0/5.0	1.2/3.0	35/156	11/47	2.0	3.0
<b>Simplex/2.0mm</b>	P-ØØ1-SP-XY-F20ZZ	0.079/2.00	2.0/5.0	1.2/3.0	50/222	15/67	3.0	4.5
<b>Simplex/2.5mm</b>	P-ØØ1-SP-XY-F25ZZ	0.098/2.50	2.0/5.0	1.2/3.0	60/267	18/80	4.9	7.3
<b>Simplex/2.9mm</b>	P-ØØ1-SP-XY-F29ZZ	0.114/2.90	2.3/5.8	1.2/3.0	60/267	18/80	6.8	10.1
<b>Zipcord/1.6mm</b> 	P-ØØ2-ZC-XY-F16ZZ	0.067x0.138/ 1.70x3.50	2.0/5.0	1.2/3.0	70/311	21/93	4.0	6.0
<b>Zipcord/2.0mm</b>	P-ØØ2-ZC-XY-F20ZZ	0.079x0.161/ 2.00x4.10	2.0/5.0	1.2/3.0	80/356	24/107	5.9	8.8
<b>Zipcord/2.5mm</b>	P-ØØ2-ZC-XY-F25ZZ	0.098x0.201/ 2.50x5.10	2.0/5.0	1.2/3.0	90/400	27/120	9.8	14.6
<b>Zipcord/2.9mm</b>	P-ØØ2-ZC-XY-F29ZZ	0.114x0.232/ 2.90x5.90	2.3/5.8	1.2/3.0	90/400	27/120	13.6	20.2
<b>Interconnect/2.9mm</b> 	P-ØØ2-IC-XY-F29ZZ	0.114/2.90	2.3/5.8	1.2/3.0	70/311	21/93	5.8	8.6

### Variables in the Catalog Number:

**XXX** = Total Fiber Count

**XY** = Fiber Grade

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

**6F** 62.5µm, FDDI Grade Multimode Fiber

**5M** LaserCore® 150, 50µm, Multimode Fiber

**5L** LaserCore® 300, 50µm, Multimode Fiber

**5K** LaserCore® 500, 50µm, Multimode Fiber

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

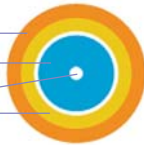
**OR** (Orange - Multimode or Composite Cable)

**AQ** (Aqua - LaserCore® Cable)

**Fiber Identification Colors:** 1/Blue, 2/Orange

### Plenum Simplex Cable

- Plenum Rated Outer Jacket
- 900 µm Tight Buffer
- 250 µm Optical Fiber
- Aramid Yarn



### Plenum Zipcord Cable

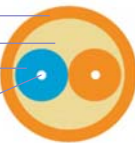
- Plenum Rated Outer Jacket

- Aramid Yarn
- 900 µm Tight Buffer
- 250 µm Optical Fiber



### Plenum 2-Fiber Interconnect Cable

- Plenum Rated Outer Jacket
- Aramid Yarn
- 900 µm Tight Buffer
- 250 µm Optical Fiber



### Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-4° to 158°F (-20° to 70°C)	FOTP-3
Installation Temperature	32° to 158°F (0° to 70°C)	N/A
Storage Temperature	-40° to 158°F (-40° to 70°C)	N/A
Crush Resistance	Exceeds 57 lbf/in (10N/mm)	FOTP-41
Impact Resistance	Exceeds 0.54 lb-ft (0.74 N·m)	FOTP-25
Flexing	Exceeds 300 cycles	FOTP-104
Twist Bend	Exceeds	FOTP-85

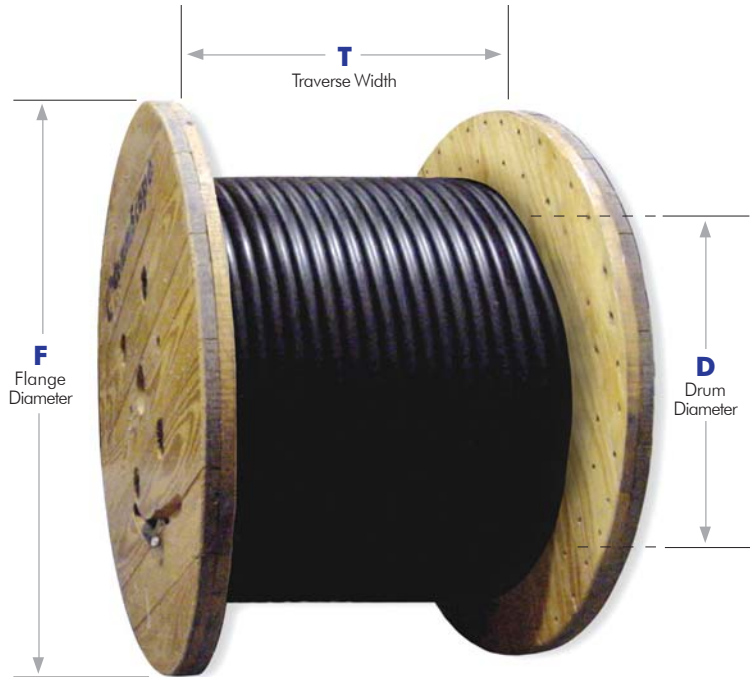
CommScope Fiber Optic Premises Cables are qualified to the requirements of Telcordia GR-409-CORE, Issue 1

Specifications are subject to change without notice.

### 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.

# Fiber Optic Cable

## Packaging and Shipping Information



### 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
<b>36 x 22 x 29.75</b>	80	3,304	3,149	2,461	1,896	1,439	1,439	1,304
<b>42 x 22 x 29.75</b>	118	6,202	5,440	4,063	3,318	2,705	2,705	2,164
<b>48 x 22 x 32.5</b>	176	9,895	8,767	6,997	5,497	4,578	4,578	3,471
<b>54 x 24 x 28</b>	370	11,565	9,857	7,893	6,420	5,051	5,051	3,869
<b>60 x 30 x 32</b>	433	15,332	13,191	10,525	8,475	6,771	6,771	5,129
<b>66 x 30 x 32</b>	506	19,732	18,192	13,424	11,087	9,129	9,129	6,648
<b>72 x 36 x 36</b>	627	25,071	22,852	17,135	14,032	11,682	11,682	8,442
<b>78 x 36 x 36</b>	758	32,217	28,464	22,057	17,548	14,083	14,083	10,486
<b>84 x 40 x 40</b>	913	39,812	35,486	27,566	22,330	17,491	17,491	13,317
<b>84 x 40 x 42</b>	922	42,055	37,605	28,968	23,172	18,607	18,607	14,292
<b>88 x 40 x 40</b>	958	45,892	41,237	31,350	25,752	20,510	20,510	15,957
<b>96 x 44 x 46</b>	1,020	N/A	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
<b>36 x 22 x 29.75</b>	80	4,655	3,921	3,038	2,416	1,855	1,855	1,371
<b>42 x 22 x 29.75</b>	118	7,985	7,015	5,261	3,997	3,252	3,252	2,264
<b>48 x 22 x 32.5</b>	176	12,864	10,913	8,685	6,369	5,411	5,411	4,003
<b>54 x 24 x 28</b>	370	14,584	12,713	9,741	7,246	5,824	5,824	4,437
<b>60 x 30 x 32</b>	433	19,382	16,748	12,809	9,706	7,728	7,728	5,834
<b>66 x 30 x 32</b>	506	25,328	22,307	16,838	13,258	10,243	10,243	7,441
<b>72 x 36 x 36</b>	627	32,226	28,593	21,606	16,947	13,009	13,009	9,635
<b>78 x 36 x 36</b>	758	40,265	36,209	27,110	20,824	16,417	16,417	12,595
<b>84 x 40 x 40</b>	913	51,316	44,394	33,388	25,671	20,586	20,586	15,779
<b>84 x 40 x 42</b>	922	54,523	46,762	35,443	27,022	21,797	21,797	16,855
<b>88 x 40 x 40</b>	958	58,185	50,805	38,966	29,315	23,858	23,858	17,664
<b>96 x 44 x 46</b>	1,020	N/A	N/A	53,181	40,797	33,577	33,577	24,195

All Units in Feet

2" Flange Clearance

Reel Weights subject to change without notice.

### Outside Plant Drop (DA, DN, M-MN and M-DN) Cables

Flange x Drum x Traverse	Reel Weight (lbs)	DA 2-12F	DN 2-12F	M-MN 1-6F	M-DN 2-12F
<b>18 x 12 x 12</b>	8.5	N/A	N/A	1,403	630
<b>22 x 12 x 12</b>	12	N/A	N/A	3,067	1,446
<b>30 x 12 x 12</b>	21	N/A	N/A	7,477	3,639
<b>35 x 16.5 x 18</b> (Wood)	70	7,287	6,572	14,581	7,111
<b>36 x 22 x 29.75</b>	80	10,160	8,965	19,601	9,636
<b>42 x 20.5 x 21</b> (Narrow)	92	12,950	11,915	24,281	12,058
<b>42 x 24 x 25</b> (Wood)	109	13,361	12,247	25,126	12,377
<b>42 x 22 x 29.75</b>	118	17,624	16,012	N/A	15,712
<b>48 x 22 x 32.5</b>	176	28,691	25,522	N/A	25,743
<b>54 x 24 x 28</b>	370	32,433	29,319	N/A	N/A
<b>60 x 30 x 32</b>	433	40,000	39,209	N/A	N/A

All Units in Feet 2" Flange Clearance

### Outside Plant Central Tube (CA and CS) Cables

Flange x Drum x Traverse	Reel Weight (lbs)	CA 2-24F	CA 26-48F	CA 50-96F	CS 2-24F
<b>35 x 16.5 x 18</b> (Wood)	70	4,361	3,320	2,342	4,821
<b>36 x 22 x 29.75</b>	80	5,787	4,586	3,096	5,965
<b>42 x 20.5 x 21</b> (Narrow)	92	7,823	5,736	3,862	8,201
<b>42 x 24 x 25</b> (Wood)	109	7,959	6,084	3,944	8,397
<b>42 x 22 x 29.75</b>	118	10,189	7,873	5,357	10,990
<b>48 x 22 x 32.5</b>	176	16,903	12,907	8,657	17,835
<b>54 x 24 x 28</b>	370	19,418	14,636	9,708	20,765
<b>60 x 30 x 32</b>	433	25,710	19,441	13,017	27,465
<b>66 x 30 x 32</b>	506	33,716	25,417	17,103	35,643
<b>72 x 36 x 36</b>	627	43,287	32,326	21,541	45,805
<b>78 x 36 x 36</b>	758	54,218	40,404	27,018	56,945

All Units in Feet 2" Flange Clearance

### Outside Plant Central Tube Pavement (CP) Cables

Flange x Drum x Traverse	Reel Weight (lbs)	CP 2-72F
<b>30 x 12 x 12</b>	18	3,618
<b>35 x 16.5 x 18</b> (Composite)	70	7,352
<b>44 x 24 x 24</b> (Composite)	109	12,555
<b>42 x 22 x 29.75</b> (Composite)	118	16,301
<b>48 x 22 x 32.5</b>	176	26,986
<b>54 x 24 x 28</b>	370	30,911
<b>60 x 30 x 32</b>	433	37,500

All Units in Feet 2" Flange Clearance

Reel Weights subject to change without notice.



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

Flange x Drum x Traverse	Reel Weight (lbs)	R CN 2-24F	CN 2-24F	CN 26-48F	CN 50-96F
<b>35 x 16.5 x 18</b> (Wood)	70	4,278	4,842	3,245	2,404
<b>36 x 22 x 29.75</b>	80	5,720	6,667	4,035	3,145
<b>42 x 20.5 x 21</b> (Narrow)	92	7,700	8,674	5,629	3,947
<b>42 x 24 x 25</b> (Wood)	109	7,850	9,014	5,496	4,019
<b>42 x 22 x 29.75</b>	118	10,084	11,336	7,196	5,430
<b>48 x 22 x 32.5</b>	176	16,547	19,282	11,854	8,909
<b>54 x 24 x 28</b>	370	18,390	21,994	13,740	10,447
<b>60 x 30 x 32</b>	433	24,416	29,277	18,020	13,954
<b>66 x 30 x 32</b>	506	32,262	37,821	23,762	18,149
<b>72 x 36 x 36</b>	627	41,005	48,201	30,347	23,185
<b>78 x 36 x 36</b>	758	51,632	N/A	38,159	28,871

All Units in Feet 2" Flange Clearance

### Outside Plant Double Jacketed Single Armored (L2) Cables

Flange x Drum x Traverse	Reel Weight (lbs)	5@1 2-60	6@1 62-72	8@1 74-96	10@1 98-120	12@1 122-144	12@6@1 146-216	15@9@1 218-288
<b>36 x 22 x 29.75</b>	80	2,551	2,460	1,894	1,440	1,337	1,337	959
<b>42 x 22 x 29.75</b>	118	4,647	4,060	3,313	2,709	2,214	2,214	1,717
<b>48 x 22 x 32.5</b>	176	7,747	6,990	5,488	4,585	3,532	3,532	2,892
<b>54 x 24 x 28</b>	370	8,700	7,885	6,408	5,059	4,345	4,345	3,228
<b>60 x 30 x 32</b>	433	11,765	10,516	8,461	6,781	5,725	5,725	4,337
<b>66 x 30 x 32</b>	506	15,656	13,410	11,067	9,145	7,313	7,313	5,730
<b>72 x 36 x 36</b>	627	19,821	17,120	14,307	11,427	9,491	9,491	7,349
<b>78 x 36 x 36</b>	758	23,997	22,035	17,888	13,778	11,664	11,664	9,254
<b>84 x 40 x 40</b>	913	31,082	27,539	22,291	17,518	14,691	14,691	11,890
<b>84 x 40 x 42</b>	925	32,586	28,939	23,553	18,636	15,375	15,375	12,516
<b>88 x 40 x 40</b>	958	35,086	31,317	25,704	20,545	16,524	16,524	13,535
<b>96 x 44 x 46</b>	1,020	47,805	43,228	35,836	27,682	24,005	24,005	18,777

All Units in Feet 2" Flange Clearance

### Outside Plant Triple Jacketed Double Armored (L3) Cables

Flange x Drum x Traverse	Reel Weight (lbs)	5@1 2-60	6@1 62-72	8@1 74-96	10@1 98-120	12@1 122-144	12@6@1 146-216	15@9@1 218-288
<b>36 x 22 x 29.75</b>	80	1,772	1,443	1,298	990	932	932	843
<b>42 x 22 x 29.75</b>	118	2,761	2,717	2,150	1,770	1,676	1,676	1,287
<b>48 x 22 x 32.5</b>	176	4,769	4,164	3,443	2,875	2,748	2,748	2,239
<b>54 x 24 x 28</b>	370	5,593	4,926	3,968	3,330	2,827	2,827	2,391
<b>60 x 30 x 32</b>	433	7,457	6,626	5,245	4,457	3,826	3,826	3,152
<b>66 x 30 x 32</b>	506	9,269	8,337	7,340	5,882	5,154	5,154	4,358
<b>72 x 36 x 36</b>	627	11,839	10,717	9,278	7,521	6,643	6,643	5,498
<b>78 x 36 x 36</b>	758	15,103	13,834	11,407	9,464	8,480	8,480	6,578
<b>84 x 40 x 40</b>	913	19,063	17,586	14,743	12,126	10,676	10,676	8,718
<b>84 x 40 x 42</b>	925	19,841	18,334	15,429	12,747	11,269	11,269	8,982
<b>88 x 40 x 40</b>	958	22,223	19,595	16,586	12,796	12,232	12,232	10,141
<b>96 x 44 x 46</b>	1,020	29,684	27,797	22,430	19,074	17,192	17,192	13,329

All Units in Feet 2" Flange Clearance

Reel Weights subject to change without notice.

**Outside Plant Figure-8 Armored (M LA) and Non-Armored (M LN) Cables**

Flange x Drum x Traverse	Reel Weight (lbs)	Armored (M LA)			Non-Armored (M LN)		
		6@1 2-72	12@1 74-144	12@6@1 146-216	6@1 2-72	12@1 74-144	12@6@1 146-216
<b>36 x 22 x 29.75</b>	80	2,046	1,130	1,130	2,401	1,211	1,211
<b>42 x 22 x 29.75</b>	118	3,382	1,987	1,987	4,117	2,117	2,117
<b>48 x 22 x 32.5</b>	176	5,806	3,088	3,088	6,711	3,431	3,431
<b>54 x 24 x 28</b>	370	6,448	3,603	3,603	7,531	3,965	3,965
<b>60 x 30 x 32</b>	433	8,575	4,762	4,762	10,272	5,217	5,217
<b>66 x 30 x 32</b>	506	11,549	6,322	6,332	13,418	6,820	6,820
<b>72 x 36 x 36</b>	627	14,689	8,291	8,291	16,966	8,905	8,905
<b>78 x 36 x 36</b>	758	18,044	9,912	9,912	21,192	11,129	11,129
<b>84 x 40 x 40</b>	913	23,170	13,069	13,069	26,869	14,509	14,509
<b>84 x 40 x 42</b>	925	24,329	13,477	13,477	28,148	15,389	15,389
<b>88 x 40 x 40</b>	958	26,620	14,450	14,450	30,460	15,929	15,929
<b>96 x 44 x 46</b>	1,020	N/A	20,419	20,419	N/A	22,219	22,219

All Units in Feet    2" Flange Clearance

**Indoor/Outdoor Stranded Loose Tube Riser Non-Armored (R LN) Cables**

Flange x Drum x Traverse	Reel Weight (lbs)	5@1 2-60	6@1 62-72	8@1 74-96	10@1 98-120	12@1 122-144	12@6@1 146-216	15@9@1 218-288
<b>36 x 22 x 29.75</b>	80	3,859	3,200	2,508	1,938	1,776	1,439	1,303
<b>42 x 22 x 29.75</b>	118	6,910	5,519	4,579	3,385	2,768	2,704	2,164
<b>48 x 22 x 32.5</b>	176	10,773	9,031	7,094	5,462	4,667	4,576	3,470
<b>54 x 24 x 28</b>	370	12,522	10,618	8,027	6,375	5,168	5,049	3,868
<b>60 x 30 x 32</b>	433	16,804	14,154	10,682	8,625	6,908	6,769	5,127
<b>66 x 30 x 32</b>	506	22,395	18,398	14,386	11,273	9,304	9,126	6,646
<b>72 x 36 x 36</b>	627	28,270	23,466	18,305	14,243	11,609	11,677	8,439
<b>78 x 36 x 36</b>	758	34,513	29,208	22,313	17,798	14,816	14,077	10,482

All Units in Feet    2" Flange Clearance

**Indoor/Outdoor Stranded Loose Tube Non-Armored Plenum (P LN) Cables**

Flange x Drum x Traverse	Reel Weight (lbs)	5@1 2-60	6@1 62-72
<b>36 x 22 x 29.75</b>	80	4,970	4,646
<b>42 x 22 x 29.75</b>	118	9,108	7,964
<b>48 x 22 x 32.5</b>	176	15,298	13,018
<b>54 x 24 x 28</b>	370	17,015	14,792
<b>60 x 30 x 32</b>	433	22,714	19,625
<b>66 x 30 x 32</b>	506	30,298	25,634
<b>72 x 36 x 36</b>	627	38,661	32,573
<b>78 x 36 x 36</b>	758	47,476	40,682

All Units in Feet    2" Flange Clearance

Reel Weights subject to change without notice.

### Plenum-Rated Distribution (P DS) Cables

Fiber	Construction Type	18x12x12 FT	22x12x12 FT	30x12x12 FT	35x16.5x18 FT	36x22x29.75 FT	42x20.5x21 FT	42x24x25 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT	72x36x36 FT	78x36x36 FT
2	SU	3,591	8,238	20,143	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4	SU	2,975	6,490	16,276	28,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6	SU	2,451	5,332	13,411	25,571	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8	SU	2,102	4,827	12,144	23,066	28,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12	SU	1,695	3,894	9,428	18,695	25,490	28,000	28,000	28,000	N/A	N/A	N/A	N/A	N/A	N/A
18	SU	944	1,995	5,037	9,339	12,704	15,879	16,990	21,625	N/A	N/A	N/A	N/A	N/A	N/A
24	SU	N/A	1,685	4,249	8,417	11,279	13,942	14,426	18,795	28,000	28,000	28,000	28,000	N/A	N/A
36	MU	N/A	N/A	1,339	2,530	3,308	4,481	4,602	6,214	9,747	11,362	15,365	19,780	25,125	28,000
48	MU	N/A	N/A	1,123	2,124	3,048	3,780	3,872	4,807	7,970	9,589	12,631	15,787	20,322	25,687
60	MU	N/A	N/A	N/A	1,695	2,369	2,858	2,781	3,926	6,277	7,118	9,556	12,332	15,818	19,586
72	MU	N/A	N/A	N/A	1,356	1,810	2,378	2,211	3,178	5,307	5,690	7,571	10,041	12,781	16,138
96	MU	N/A	N/A	N/A	919	1,300	1,666	1,666	2,157	3,456	3,851	5,263	7,370	9,311	11,453
144	MU	N/A	N/A	N/A	N/A	1,269	1,405	1,618	2,113	3,303	3,780	5,023	6,522	8,298	10,321

### Riser-Rated Distribution (R DS) Cables

Fiber	Construction Type	18x12x12 FT	22x12x12 FT	30x12x12 FT	35x16.5x18 FT	36x22x29.75 FT	42x20.5x21 FT	42x24x25 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT	72x36x36 FT	78x36x36 FT
2	SU	3,467	7,603	19,099	28,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4	SU	2,485	5,399	13,547	25,717	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6	SU	2,069	4,755	11,562	22,130	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8	SU	1,978	4,292	10,439	19,885	27,471	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12	SU	1,667	3,840	9,326	17,685	24,075	28,000	28,000	28,000	N/A	N/A	N/A	N/A	N/A	N/A
18	SU	966	2,035	5,115	9,906	13,882	16,918	17,303	22,148	N/A	N/A	N/A	N/A	N/A	N/A
24	SU	N/A	1,729	4,354	8,546	11,382	13,890	14,584	18,950	28,000	28,000	28,000	28,000	N/A	N/A
36	MU	N/A	N/A	1,292	2,398	3,203	4,408	4,429	5,527	8,885	10,637	13,918	18,096	23,124	28,000
48	MU	N/A	N/A	954	2,072	2,552	3,382	3,415	4,648	7,751	8,704	11,535	14,555	18,833	24,010
60	MU	N/A	N/A	N/A	1,540	1,979	2,880	2,715	3,858	6,054	6,499	8,769	12,162	15,315	18,980
72	MU	N/A	N/A	N/A	1,366	1,818	2,135	2,221	2,829	4,752	5,571	7,432	9,234	11,800	15,046
96	MU	N/A	N/A	N/A	N/A	1,304	1,601	1,672	2,166	3,372	3,873	5,133	6,655	8,450	10,497
144	MU	N/A	N/A	N/A	N/A	958	1,357	1,329	1,715	2,889	3,348	4,332	5,723	7,340	9,242

### LSZH Distribution (Z DS) Cables

Fiber	Construction Type	18x12x12 FT	22x12x12 FT	30x12x12 FT	35x16.5x18 FT	36x22x29.75 FT	42x20.5x21 FT	42x24x25 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT	72x36x36 FT	78x36x36 FT
2	SU	3,632	8,320	20,865	28,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4	SU	2,101	4,821	12,121	23,293	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6	SU	1,979	4,297	10,457	19,915	27,498	28,000	28,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8	SU	1,356	3,110	7,813	15,087	20,451	25,520	26,143	28,000	N/A	N/A	N/A	N/A	N/A	N/A
12	SU	1,231	2,637	6,371	11,709	16,763	20,194	21,123	26,866	N/A	N/A	N/A	N/A	N/A	N/A
18	SU	943	1,993	5,031	9,329	12,833	15,863	16,976	21,840	N/A	N/A	N/A	N/A	N/A	N/A
24	SU	N/A	1,695	4,042	7,882	11,077	12,977	13,571	17,611	28,000	28,000	28,000	28,000	28,000	N/A
36	MU	N/A	N/A	N/A	1,403	1,897	2,444	2,661	3,320	5,374	6,425	8,481	11,098	14,043	17,564
48	MU	N/A	N/A	N/A	1,141	1,776	2,066	2,160	2,769	4,669	5,170	6,910	9,308	11,613	14,822
60	MU	N/A	N/A	N/A	1,114	1,372	1,718	1,711	2,266	4,008	4,444	5,482	7,452	9,647	12,614
72	MU	N/A	N/A	N/A	N/A	1,268	1,402	1,616	2,109	3,398	3,770	5,013	6,506	8,280	10,296

### Reel Weights (lbs.)

18x12x12 FT	22x12x12 FT	30x12x12 FT	35x16.5x18 FT	36x22x29.75 FT	42x20.5x21 FT	42x24x25 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT	72x36x36 FT	78x36x36 FT
8.5	12	21	70	80	92	109	118	176	370	433	506	627	758

Reel Weights subject to change without notice.

**Fiber Optic Cable**  
Packaging and Shipping Information

**Riser, Plenum and LSZH\* Simplex (SP) Cables**

Fiber	Size	18x12x12 FT	22x12x12 FT
1	1.6	18,124	N/A
1	1.8	16,623	N/A
1	2.0	13,347	28,000
1	2.5	8,539	19,577
1	2.9	6,188	14,177

\* 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
2	1.6	5,307	18,425	N/A
2	1.8	4,078	13,455	28,000
2	2.5	2,246	7,304	21,190
2	2.9	1,768	5,706	16,493

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

**Riser, Plenum and LSZH\* Interconnect (IC) Cables**

Fiber	Size	18x12x12 FT	22x12x12 FT	30x12x12 FT
2	2.9	6,782	15,048	28,000

All reels calculated using 2" flange clearance

**Reel Weights (lbs.)**

	18x12x12 FT	22x12x12 FT	30x12x12 FT
	8.5	12	21

Reel Weights subject to change without notice.

Reel Weights subject to change without notice.

**Armored Distribution, Single and Multi-Unit Plenum (DX, DZ) Cables**

Fiber	Construction Type	18x12x12 FT	22x12x12 FT	30x12x12 FT	35x16.5x18 FT	36x22x29.75 FT	42x20.5x21 FT	42x24x25 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT	72x36x36 FT	78x36x36 FT
2-12	SJ	N/A	N/A	1,293	2,399	3,204	4,410	4,431	5,529	8,890	10,644	N/A	N/A	N/A	N/A
18-24	SJ	N/A	N/A	924	1,751	2,415	2,936	3,201	3,994	6,363	7,239	9,698	13,244	N/A	N/A
18	MU	N/A	N/A	N/A	1,361	1,814	2,387	2,216	3,189	4,737	5,715	7,599	10,085	N/A	N/A
24	MU	N/A	N/A	N/A	1,151	1,442	2,001	2,102	2,713	4,594	5,070	6,614	8,321	10,699	N/A
36	MU	N/A	N/A	N/A	1,116	1,373	1,721	1,713	2,269	4,016	4,452	5,851	7,466	9,663	12,638
48	MU	N/A	N/A	N/A	873	1,303	1,673	1,669	2,162	3,466	3,864	5,122	6,639	8,431	11,188
60	MU	N/A	N/A	N/A	N/A	961	1,296	1,278	1,723	2,812	3,244	4,356	5,759	7,381	9,300
72	MU	N/A	N/A	N/A	N/A	N/A	1,079	1,191	1,327	2,378	2,772	3,627	4,461	5,804	7,528
96	MU	N/A	N/A	N/A	N/A	N/A	N/A	3,872	1,206	1,840	1,972	2,630	3,742	4,761	5,773
144	MU	N/A	N/A	N/A	N/A	N/A	N/A	2,781	1,206	1,840	1,972	2,630	3,742	4,761	5,773

**Armored Distribution, Single and Multi-Unit Riser (DX, DZ) Cables**

Fiber	Construction Type	18x12x12 FT	22x12x12 FT	30x12x12 FT	35x16.5x18 FT	36x22x29.75 FT	42x20.5x21 FT	42x24x25 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT	72x36x36 FT	78x36x36 FT
2-12	SJ	N/A	N/A	1,293	2,399	3,204	4,410	4,431	5,529	8,890	10,644	N/A	N/A	N/A	N/A
18-24	SJ	N/A	N/A	924	1,751	2,415	2,936	3,201	3,994	6,363	7,239	9,698	13,244	N/A	N/A
18	MU	N/A	N/A	N/A	1,361	1,814	2,387	2,216	2,713	4,594	5,070	6,614	8,321	10,699	N/A
24	MU	N/A	N/A	N/A	1,151	1,442	2,001	2,102	2,162	3,466	3,864	5,122	6,639	8,431	11,188
36	MU	N/A	N/A	N/A	1,116	1,373	1,721	1,713	2,162	3,466	3,864	5,122	6,639	8,431	11,188
48	MU	N/A	N/A	N/A	873	1,303	1,673	1,669	1,763	2,952	3,311	4,435	5,849	7,484	9,411
60	MU	N/A	N/A	N/A	N/A	961	1,296	1,278	1,723	2,812	3,244	4,356	5,759	7,381	9,300
72	MU	N/A	N/A	N/A	N/A	N/A	1,079	1,191	1,327	2,378	2,772	3,627	4,461	5,804	7,528
96	MU	N/A	N/A	N/A	N/A	N/A	N/A	3,872	1,206	1,840	1,972	2,630	3,742	4,761	5,773
144	MU	N/A	N/A	N/A	N/A	N/A	N/A	2,781	952	1,786	1,902	2,549	3,257	4,171	5,128

Until further notice, the maximum length for any armored cable is 10,000 ft, unless constricted by reel size.

Reel Weights subject to change without notice.

**International Packaging - Weights and Dimensions**

Reel Dimensions	Reels per Layer	Layers	Cube Size (in.) (l x w x h)	Lagging Weight (lbs.)	Reel Weight (lbs.)	Pallet Weight (lbs.)	Total Weight (lbs.)
18 x 12 x 12	5	1	44 x 44 x 19	N/A	8.5	43	85.5
18 x 12 x 12	5	2	44 x 44 x 32	N/A	8.5	43	128
18 x 12 x 12	5	3	44 x 44 x 45	N/A	8.5	43	171
18 x 12 x 12	4	1	36 x 36 x 19	N/A	8.5	26	60
18 x 12 x 12	4	2	36 x 36 x 32	N/A	8.5	26	94
18 x 12 x 12	4	3	36 x 36 x 45	N/A	8.5	26	128
22 x 12 x 12	4	1	44 x 44 x 19.25	N/A	12	43	91
22 x 12 x 12	4	2	44 x 44 x 32.5	N/A	12	43	139
22 x 12 x 12	4	3	44 x 44 x 45.75	N/A	12	43	187
30 x 12 x 12	1	1	30 x 30 x 19.25	N/A	21	19	40
30 x 12 x 12	1	2	30 X 30 X 32.5	N/A	21	19	61
35 x 16.5 x 18	1	N/A	39 X 25 X 41	60	70	47	177
36 x 22 x 29.75	1	N/A	39 X 40 X 46	90	80	70	240
42 x 22 x 29.75	1	N/A	39 X 44 X 52	189	118	70	377
42.5 x 24 x 25	1	N/A	33 X 44 X 52	189	109	67	365
42x20.5x21	1	N/A	33 X 44 X 52	189	92	67	348
48 x 22 x 32.5	1	N/A	42 x 51 x 58	169	176	108	453
54 x 24 x 28	1	N/A	42 x 57 x 64	188	370	108	666
60 x 30 x 32	1	N/A	45 X 63 X 70	214.5	433	161	808.5
66 x 30 x 32	1	N/A	45 X 69 X 75	240.5	506	161	907.5
72 x 36 x 36	1	N/A	48 X 75 X 82	333	627	232	1192
78 x 36 x 36	1	N/A	48 x 81 x 88	360	758	232	1350
84 x 40 x 40	1	N/A	85 x 52 x 92	387	913	240	1540
88 x 40 x 40*	1	N/A	91 x 52 x 97	414	958	240	1612
96 x 44 x 40*	1	N/A	N/A	450	1020	0	1470

\*NOTE: These reels require special containers. Please consult Customer Service for availability at time of order.

Reel Weights subject to change without notice.