

Single Jacket Loose Tube Fiber Optic Cable

Single Jacket cable offers flexibility with outstanding durability and reliability for a classic outside plant cabling solution.



Product Overview

Single Jacket loose tube fiber optic cable is our classic outside plant cabling solution. This lightweight, small diameter cable offers the flexibility needed for duct and lashed aerial applications plus the durability essential for outside plant use. Field-proven loose tube construction, dielectric strength elements, and a rugged medium-density polyethylene (MDPE) jacket create a cable that's easy to handle and install, yet hardy enough for the rigors of the outdoors.

Applications

- Duct and duct-to-lashed aerial installations
- Lashed aerial
- General outside plant

Design

Single Jacket cable's outstanding long-term performance and reliability begins with our field-proven loose tube design. With this design, 1 to 12 optical fibers are placed within color-coded, gel-filled buffer tubes to protect the fibers from external forces – creating a stress-free operating environment within the cable's designed load and temperature rating. Next, the buffer tubes are

stranded around a dielectric or metallic central member using the reverse oscillating lay (ROL) stranding technique. Unlike other stranding methods, ROL enables quick and easy mid-span entry. Water-blocking material is then applied to the cable core, and dielectric strength elements and a durable polyethylene jacket complete the cable construction.

Features

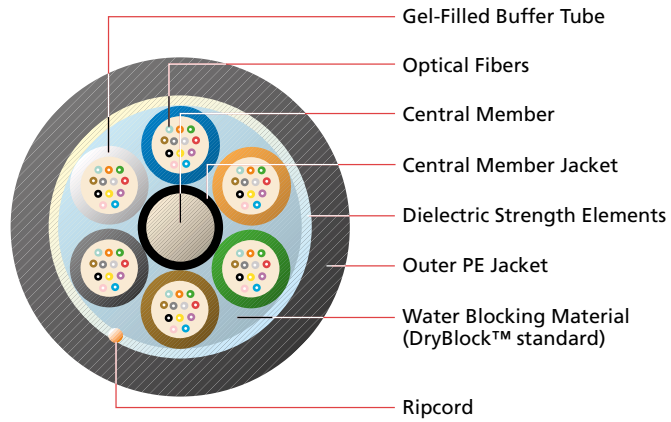
- Fiber counts to 288 (up to 432 available in 24 fibers per tube; up to 864 available in AccuTube™ design)
- Broad range of fiber types for the performance you need
- 600-pound (2700 N) rated pulling tension for long pulls
- Hybrid (fiber/copper) and composite (mix of fiber types) cable designs available for special applications
- DryBlock™ water-blocking technology for a more craft-friendly, jelly-free cable core
- HDPE jacket available on request

Benefits

- Small diameter for ease of handling
- Lightweight, flexible, and easy to install, yet highly durable and reliable
- ROL stranding and ripcords for fast mid-span entry
- RUS listed; meets Telcordia Technologies standards
- ISO 9001 and ISO 14001 certified manufacturer; TL 9000 registered quality management system

Key Specifications

- Minimum Bend Radius 15x cable outer diameter during installation; 10x cable outer diameter post installation
- Operating Temperature Range
-40° F to 158° F (-40° C to 70° C)
-60° F to 158° F (-60° C to 70° C)*
*Available on customer request
- Cable diameter tolerance typically within 5% of nominal



Ordering Information

Select one character from each category to construct the product part number:

Fiber			Sheath		Core		Fiber Count			
S1	S2	SF	S3	S4	S5	S6				
AT	-	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	-	<input type="text"/>	<input type="text"/>	<input type="text"/>
002 to 288										

S1 – Select Fiber Transmission Performance

- 3** = 1310/1550 nm (AllWave®)
- 6** = 1550 nm (TrueWave® RS Singlemode)
- R** = 850/1300 nm (Multimode)

S2 – Select Maximum Fiber Attenuation

- B** = 0.35/0.25 dB/km (1310/1550 nm AllWave)
- 4** = 0.40/0.30 dB/km (1310/1550 nm AllWave)
- 2** = 0.25 dB/km (TrueWave RS Singlemode)
- U** = 3.4/1.0 dB/km and 200/500 MHz-km (850/1300 nm Multimode)
- G** = 2.4/0.7 dB/km and 500/900 MHz-km (850/1300 nm 50µm Multimode)

SF – Select Fiber Type

- E** = AllWave® Matched Clad Singlemode
- 6** = TrueWave® RS Nonzero-Dispersion Singlemode
- 9** = 62.5/125µm Multimode
- 2** = 50/125µm Multimode

S3 – Select Central Member Construction

- 1** = Dielectric Central Member
- D** = Metallic Central Member

S4 – Select Tensile Load

- 2** = 600 lb. (2700 N)

S5 – Select Core Type

- T** = DryBlock™ (Enhanced)
- D** = DryBlock™
- F** = Flooded (Enhanced)
- L** = Flooded

S6 – Select Fibers Per Tube

- 2** = 2 fibers **8** = 8 fibers
- 4** = 4 fibers **N** = 10 fibers
- 6** = 6 fibers **T** = 12 fibers

Example: AT-34E12TT-072 = 72 Fiber Single Jacket DryBlock Dielectric Central Member AllWave Singlemode Fiber

Please contact us for additional fiber and cable options.



For additional information please contact your sales representative. You can also visit our website at <http://www.ofsoptics.com> or call 1-800-366-3483 or 1-888-fiberhelp.

www.ofsoptics.com

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