

Light Armor Loose Tube Fiber Optic Cable

Single Jacket, Single Armor cable combines durability and ease of handling for a rugged, easy-to-install outside plant cabling solution.



Product Overview

Light Armor loose tube fiber optic cable has long been a popular cabling solution for outside plant applications including duct, lashed aerial, and direct buried in harsh environments. Corrugated steel armor and a robust medium-density polyethylene (MDPE) jacket combine to deliver rugged durability and added rodent resistance in an RUS-listed cable that remains lightweight, flexible, and easy to install.

Applications

- Direct burials
- Lashed aerial
- Duct and duct-to-lashed aerial installations
- Installations requiring added compressive strength
- Applications needing rodent resistance

Design

Light Armor cable's exceptional long-term performance and reliability starts 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 environmental and mechanical 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 method. Unlike other stranding techniques, ROL enables fast mid-span entry. Water-blocking material and dielectric strength elements are then applied to the cable core. Finally, a single layer of corrugated steel armor and a durable polyethylene jacket are added to complete the cable construction.

Features

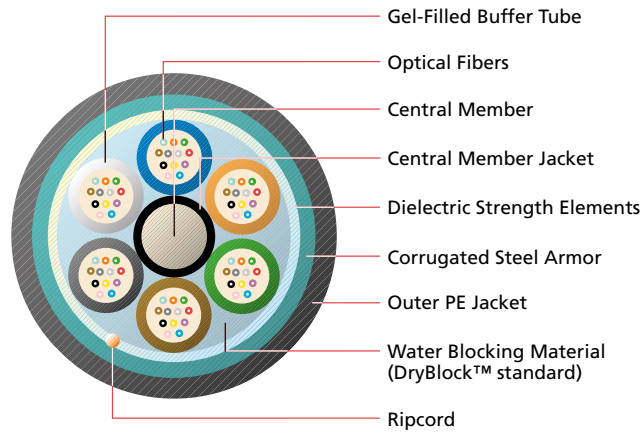
- Fiber counts to 288 (up to 432 available in 24 fibers per tube; up to 864 available in AccuTube™ design)
- Wide range of fiber types for the performance you need
- Composite (mix of fiber types) and hybrid (fiber/copper) cable designs available for special applications
- DryBlock™ water-blocking technology for a more craft-friendly, jelly-free cable core
- PE coated electrolytically chrome-sheathed steel (ECCS) armor
- HDPE jacket available on request

Benefits

- Offers excellent crush resistance and protection from rodent attacks
- Easy to handle and install
- DryBlock cable design for reduced cable prep and splicing time
- RUS listed; meets Telcordia Technologies standards
- Easy fiber access with ROL stranding and ripcords
- 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"/>	<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

- H** = Dielectric Central Member
- B** = 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-34EH2TT-072 = 72 Fiber Light Armor 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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