

OPTION1™ Loose Tube Fiber Optic Cable

Low Smoke/Zero Halogen, Riser-Rated, Outdoor/Indoor cable combines outside plant durability with indoor riser features to create an innovative cabling solution.



Product Overview

OPTION1™ outdoor/indoor loose tube fiber optic cable innovatively combines the flame resistance and safety features of a low smoke/zero halogen, indoor riser-rated cable with the durability critical to outside plant use. The result is a unique, dual-purpose cable that saves time and money by allowing outside plant applications to flow seamlessly indoors, using a single cable and no splices.

Applications

- Campus environments
- Local area networks (LANs)
- Private networks
- Outside plant to building transitions
- Inter-building installations

Design

OPTION1 cable's outstanding long-term reliability and performance begins with our field-proven loose tube design. First, 1 to 12 optical fibers are placed within color-coded, gel-filled buffer tubes to create a stress-free operating environment within the cable's designed load and temperature rating. The fibers are also compartmentalized within the buffer tubes in increments of up to 12 per tube. This design makes

it easy to locate specific fibers for drop-off applications without disturbing other active fibers or tubes. And because the buffer tubes are stranded around a dielectric central member using the reverse oscillating lay (ROL) technique, mid-span access is faster and easier. DryBlock™ water-blocking material, dielectric strength elements, and a UV and flame-resistant jacket encase the core to complete the cable construction.

Features

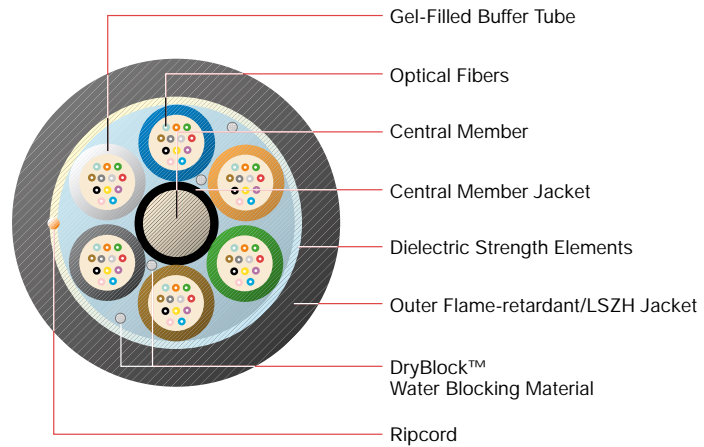
- Fiber counts to 288
- Wide range of fiber types for the performance you need
- Riser- and tray-rated
- All-dielectric construction with OFNR approval
- Low smoke/zero halogen (LSZH) rated
- Meets UL 1666 (riser-rated) and IEEE 383 for flame resistance
- UV-resistant jacket for reliable service in direct sunlight

Benefits

- Streamlined installation with direct outdoor-to-indoor cable transitions
- Enhances system performance by avoiding additional splice point attenuation loss
- ROL stranding and ripcords for fast mid-span fiber access
- Small bend radius for easier installation
- Available pre-connectorized to reduce installation time and expense
- 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)
- 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) **or** **G** = 2.4/0.7 dB/km and 500/900 MHz-km (850/1300 nm 50um Multimode)

SF - Select Fiber Type

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

S3 - Select Central Member Construction

- 1** = Dielectric Central Member

S4 - Select Tensile Load

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

S5 - Select Core Type

- O** = OPTION1™ Loose Tube

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-RU91206-024 = 24 Fiber OPTION1 Dielectric Central Member Multimode 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 1-888-fiberhelp.

www.ofsoptics.com

Copyright © 2002 Fitel USA Corp. All rights reserved, printed in USA.

TrueWave, AllWave, OPTION1, and DryBlock are trademarks of Fitel USA Corp.

OFS
Marketing Communications
OPT1 - 3/03 - OFS1156