

# Fortex™ DT Cable Armored



A Furukawa Company

Lose The Gel With Completely Dry, Highly Durable Cable for Cleaner, Faster Installations

## Product Description

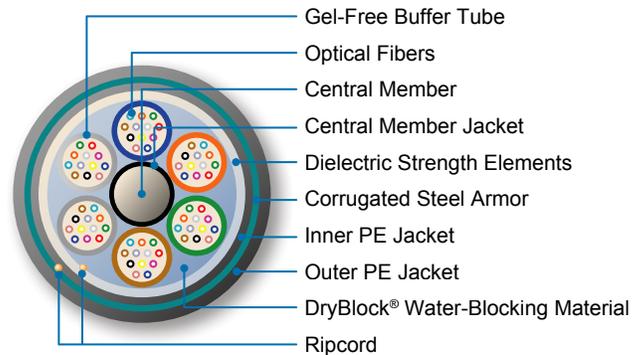
The OFS Fortex™ DT Armored Loose Tube Cable offers the robust durability and reliability critical to demanding outside plant (OSP) use in an innovative, completely dry cable design that remains lightweight and easy to install.

To construct this cable, the optical fibers are placed in space-efficient, 2.5 mm buffer tubes that contain a specially-engineered, super-absorbent yarn that delivers water blocking “on demand”. The color-coded buffer tubes are then stranded around a dielectric central member using the reverse oscillating lay (ROL) stranding technique for easy, mid-span fiber access.

Additional dry, super-absorbent material is applied to the cable core for exceptional water-blocking performance and faster cable preparation. Dielectric strength elements, a ripcord, and an inner polyethylene (PE) jacket are then added. Next, a layer of corrugated electrolytically chrome-coated steel (ECCS) armor tape is applied length-wise over the cable core to provide rugged durability. Finally, a second ripcord and a durable PE outer jacket are added to complete the cable construction.



Fortex™ DT Armored Loose Tube Cable



## Why the Fortex DT Armored Cable?

As the industry's first 100% dry loose tube cable to meet the water-blocking requirements of ANSI/ICEA and Telcordia OSP cable standards, the Fortex DT Armored Cable offers all the benefits of a standard armored loose tube cable plus it's completely gel-free – even inside the buffer tubes!

Unlike traditional OSP cables that use gels in direct contact with optical fibers, the Fortex DT Armored Cable replaces gels with a specially-designed, super-absorbent yarn in each buffer tube that provides water blocking “on demand”. By eliminating gels and filling compounds, this cable offers virtually effortless splice preparation, while keeping your tools, workspace, closures, and cabinets cleaner. The Fortex DT Armored Cable is also lighter in

*(Continued on next page.)*

## Features and Benefits

- Totally gel-free cable design for cleaner, faster installations
- Easy to handle and install
- Highly durable and reliable for demanding OSP installations, including demanding direct burials, duct, and lashed aerial use
- Excellent for environments requiring added compressive strength and/or added protection from rodent attack
- Smaller, more flexible buffer tubes for easier installation and routing
- Fiber counts to 288
- RDUP (formerly RUS) listed and compliant with ANSI/ICEA, Telcordia, and IEC specifications for reliable performance
- Available with OFS AllWave® Zero Water Peak (ZWP) Single-Mode, TrueWave® RS LWP Single-Mode, and Multimode Fibers.

<sup>1</sup> “100% dry” indicates that no oils, gels, or flooding compounds are used to block water penetration under the fiber optic cable sheath or through the core

weight, making it easier to handle and less of a load on your work crew and plant infrastructure.

In addition to being completely gel-free, the Fortex DT Armored Cable offers the same high-performance features as OFS' traditional Armored Loose Tube Cable. Our flexible 2.5 mm buffer tubes – among the smallest standard tubes in the industry – create far less bulk to

be stored in closures and pedestals, and coil more easily and into tighter diameters. Plus, the Fortex DT Armored Cable design combines a layer of rugged corrugated steel armor with two durable polyethylene jackets to deliver the muscle and rodent resistance needed for tough outside plant use, all in a cable that remains lightweight and easy to handle and install.

Specifications								
Fiber Count	2-60	61-72	73-96	97-120	121-144	145-216	217-240	241-288
Cable Outer Diameter in. (mm)	0.51 (12.9)	0.54 (13.6)	0.60 (15.3)	0.67 (17.0)	0.73 (18.6)	0.74 (18.7)	0.77 (19.5)	0.84 (21.3)
Cable Weight lb/kft (kgm/km)	105 (156)	116 (172)	142 (211)	177 (264)	210 (312)	199 (296)	218 (325)	236 (351)
Performance Standard								
Tested per Applicable Requirements of ANSI/ICEA S-87-640 and Telcordia GR-20-CORE Issue 2								
Handling								
Minimum Bend Radius, With Load:	15 x OD*							
Minimum Bend Radius, With No Load:	10 x OD							
Minimum Bend Radius, Storage Coils:	10 x OD							
Maximum Rated Cable Load (MRCL):	600 lbf (2700 N)							
Maximum Long Term Load:	180 lbf (800 N)							
Temperature	Installation: -30°C to 60°C (-22°F to 140°F) Operation: -60°C to 70°C (-76°F to 158°F) Storage: -40°C to 75°C (-40°F to 167°F)							
* <i>Note:</i> OD = Outer Diameter of Cable								

### Fortex DT Armored Cable Ordering Information

*Example: AT-3BEN2YT-NNN<sup>1</sup>*

Part Number: <b>AT-<u>S1</u> <u>S2</u> <u>SF</u> <u>S3</u> <u>S4</u> <u>S5</u> <u>S6</u> - <u>NNN</u></b>			
Fiber <sup>2</sup>	Sheath	Core	Fiber Count
<b>S1 = Fiber Selection</b> <b>3</b> = 1310/1550 nm (AllWave® ZWP Single-Mode Fiber) <b>6</b> = 1550 nm (TrueWave® RS LWP Single-Mode Fiber) <b>R</b> = 850/1300 nm (Multimode Fiber)	<b>SF = Fiber Type<sup>2</sup></b> <b>E</b> = AllWave ZWP Single-Mode <b>6</b> = TrueWave RS LWP Single-Mode <b>9</b> = 62.5/125 µm Multimode <b>2</b> = 50/125 µm Multimode	<b>S5 = Core Type</b> <b>Y</b> = Totally Dry Loose Tube	<b>S6 = Fibers per Tube</b> <b>T</b> = 12 fibers
<b>S2 = Fiber Transmission Performance</b> <b>B</b> = 0.35/0.31/0.27/0.25/0.27 dB/km @ 1310/1385/1490/1550/1625 nm (AllWave ZWP/ AllWave FLEX ZWP) <b>2</b> = 0.25 dB/km @ 1550 nm (TrueWave RS LWP) <b>U</b> = 3.4/1.0 dB/km and 200/500 MHz-km @ 850/1300 nm (62.5 µm Multimode) <b>K</b> = 2.5 /07 dB/km and 500/500 MHz-km @ 850/1300 nm (50 µm Multimode)	<b>S3 = Sheath Construction</b> <b>N</b> = Double Jacket, Single Armor	<b>S4 = Tensile Load</b> <b>2</b> = 600 lb (2700 N)	<b>NNN = Fiber Count = 002 – 288</b>

<sup>1</sup> Part Number shown is for standard AllWave ZWP attenuation and standard cable print:  
Maximum AllWave ZWP attenuation: 0.35/0.31/0.27/0.25/0.27 dB/km (1310/1385/1490/1550/1625 nm)  
Standard Print, example (Fortex DT Armored Cable):  
**OFS OPTICAL CABLE AT-3BEN2YT-NNN [MM-YY] [HANDSET SYMBOL] [NNN] F [SERIAL #]**

<sup>2</sup> Contact OFS Order Management for information on other cable variations, including additional fiber types, attenuation, and custom cable print.



Use electronic files, available at:  
[www.ofsoptics.com](http://www.ofsoptics.com) - Use less paper

For additional information please contact your sales representative. You can also visit our website at [www.ofsoptics.com](http://www.ofsoptics.com) or call 1-888-fiberhelp (1-888-342-3743) from inside the USA or 1-770-798-5555 from outside the USA.

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