Fortex™ DT Cable
Light Armor

ofs
A Furukawa Company

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

Product Description

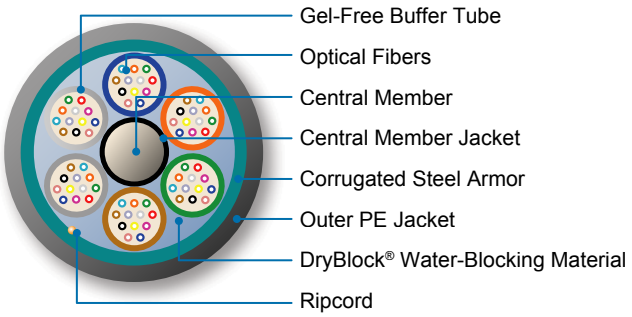
The OFS Fortex™ DT Light Armor Loose Tube Cable delivers the rugged durability and reliability essential for outside plant (OSP) use in an innovative, completely dry cable design.

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. A layer of corrugated electrolytically chrome-coated steel (ECCS) armor is then applied lengthwise over the cable core to provide rugged durability. Finally, a ripcord and a durable polyethylene (PE) jacket are added to complete the cable construction.

Fortex™ DT Light Armor Loose Tube Cable

KEY COMPONENT OF FOX SOLUTION™
Fiber Optics to the X



Why the Fortex DT Light Armor Cable?

As the industry's first 100% dry[1], loose tube cable to meet the water-blocking requirements of ANSI/ICEA and Telcordia OSP cable standards, the Fortex DT Light Armor Cable offers all the benefits of a standard light armor 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 Light Armor 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 Light Armor Cable is also lighter in weight, making it easier to handle and less of a load on your work crew and plant infrastructure.

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[1] "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.

Features and Benefits

- Totally gel-free cable design for cleaner, faster installations
- Easy to handle and install
- Highly durable and reliable for underground duct and lashed aerial installations (including duct-to-lashed aerial) as well as general OSP installations, including direct buried in harsh environments
- PE coated ECCS armor offers additional crush resistance and 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.

In addition to being completely gel-free, the Fortex DT Light Armor Cable offers the same high-performance features as OFS' traditional Light Armor Loose Tube Cable. Our flexible, craft-friendly 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 Light Armor Cable combines this ease of handling with rugged durability and added rodent resistance. The result is a durable, reliable cable that remains lightweight, flexible, and easy to install – making it an excellent choice for a variety of OSP applications including duct, lashed aerial, and direct buried in harsh environments.

Specifications

Fiber Count	2-60	61-72	73-96	97-120	121-144	145-216	217-240	241-288
Cable Outer Diameter in. (mm)	0.45 (11.3)	0.48 (12.2)	0.54 (13.8)	0.61 (15.4)	0.68 (17.2)	0.67 (16.9)	0.70 (17.7)	0.77 (19.5)
Cable Weight lb/kft (kgm/km)	84 (125)	95 (142)	114 (169)	142 (212)	176 (262)	153 (228)	169 (252)	202 (300)

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)

* ***Note:*** OD = Outer Diameter of Cable

Fortex DT Light Armor Cable Ordering Information

Example: **AT-3BEH2YT-***NNN*[1]

Fiber[2] Sheath Core Fiber Count

Part Number: **AT-***S1 S2 SF S3 S4 S5 S6* **-** *NNN*

S1 = **Fiber Selection**
- **3** = 1310/1550 nm (AllWave® ZWP Single-Mode Fiber)
- **6** = 1550 nm (TrueWave® *RS* LWP Single-Mode Fiber)
- **R** = 850/1300 nm (Multimode Fiber)

S2 = **Fiber Transmission Performance**
- **B** = 0.35/0.31/0.27/0.25/0.27 dB/km @ 1310/1385/1490/1550/1625 nm (AllWave ZWP/ AllWave *FLEX* ZWP)
- **2** = 0.25 dB/km @ 1550 nm (TrueWave *RS* LWP)
- **U** = 3.4/1.0 dB/km and 200/500 MHz-km @ 850/1300 nm (62.5 µm Multimode)
- **K** = 2.5 /07 dB/km and 500/500 MHz-km @ 850/1300 nm (50 µm Multimode)

SF = **Fiber Type**[2]
- **E** = AllWave ZWP Single-Mode
- **6** = TrueWave *RS* LWP Single-Mode
- **9** = 62.5/125 µm Multimode
- **2** = 50/125 µm Multimode

S3 = **Sheath Construction**
- **H** = Single Jacket, Single Armor

S4 = **Tensile Load**
- **2** = 600 lb (2700 N)

S5 = **Core Type**
- **Y** = Totally Dry Loose Tube

S6 = **Fibers per Tube**
- **T** = 12 fibers

NNN = **Fiber Count** = 002 – 288

[1] 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-3BEH2YT-*NNN [MM-YY] [HANDSET SYMBOL] [NNN] F [SERIAL #]*

[2] Contact OFS Order Management for information on other cable variations, including additional fiber types, attenuation, and custom cable print.

THINK GREEN

Use electronic files, available at:
www.ofsoptics.com - Use less paper

For additional information please contact your sales representative. You can also visit our website at 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.

OFS reserves the right to make changes to the prices and product(s) described in this document at any time without notice.

Marketing Communications
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