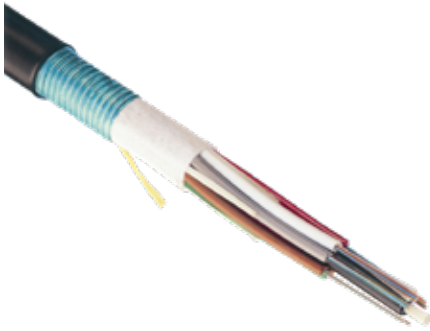




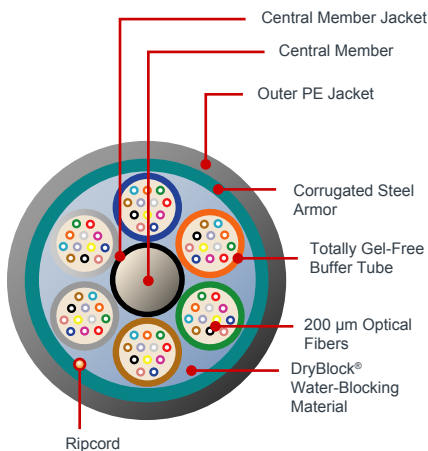
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## Fortex™ 2DT Light Armored Cable

Reduced Diameter, Lightweight Loose Tube Cable Increases Fiber Density, Cost-Effectiveness and Performance



Fortex 2DT Light Armor Cable



Fortex 2DT Light Armor Jacket  
Cable Cross-section

### Features

- Completely gel-free cable design
- Field-proven, 200 µm bend-optimized OFS AllWave®+ Zero Water Peak (ZWP) Fiber for lower bending loss
- Reduced diameter (approx. 15%) and weight (more than 20%) cable<sup>1</sup>
- Layer of electrolytically chrome-coated steel (ECCS) armor
- Complies with ANSI-ICEA S-87-640 and Telcordia GR-20 Core Issue 4
- Fiber counts to 288

### Benefits

- Robust, durable cable for long-term reliability and performance
- Smaller and more lightweight cable provides greater fiber density in limited spaces
- Excellent crush and rodent resistance
- Seamless fiber splicing to existing 9.2 µm mode field diameter (MFD) fiber plant
- Gel-free cable for faster and cleaner splice preparation

### Product Description

The Fortex 2DT Light Armor Cable is a 600 lb fully GR-20 rated Outside Plant cable meeting the same requirements and specifications of our longstanding field proven Fortex DT line of products. It offers the durability, reliability and GR-20 compliant performance of our Fortex DT product line, along with all of the benefits offered by a smaller and lighter-weight cable design.

### Why the Fortex 2DT Light Armored Cable?

As fiber goes deeper into the network, it must often be deployed into smaller spaces. To address this trend, OFS developed the Fortex 2DT Light Armor Loose Tube Cable. By incorporating 200 micron optical fiber, this cable literally doubles the fiber count in the cable buffer tubes, significantly increasing fiber density.

The reduced outer diameter of Fortex 2DT Light Armor Cable enables improved utilization of duct and subducts. In addition, cables with smaller outer diameters allow longer continuous cable reel lengths, which may result in fewer splices needed for a deployment. Over long distances, the potential cost savings created by reduced splicing can be substantial.

The lighter weight of the Fortex 2DT Light Armor Cable can help to lower cable pulling tensions. This reduction can result in (1) increased cable pulling lengths; (2) lower installation costs by allowing longer distances between pulling handholes; and (3) faster installation speeds. In the case of aerial deployments, a lighter weight cable can also decrease loads on poles.

With an added layer of ECCS armor, the Fortex 2DT Light Armor Cable offers excellent crush and rodent resistance.

The Fortex 2DT Light Armor Cable is an excellent choice for duct, lashed aerial and general outside plant (OSP) installations, including direct buried installations in challenging environments where a gel-free, higher-density loose tube cable is needed.

<sup>1</sup> When compared with standard OFS Fortex DT Light Armored Cable.



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## Fortex™ 2DT Light Armored Cable

Specifications								
<b>Fiber Count</b>	<b>2-60</b>	<b>72</b>	<b>96</b>	<b>108-120</b>	<b>144</b>	<b>156-216</b>	<b>228-240</b>	<b>252-288</b>
<b>Cable Outer Diameter - in. (mm)</b>	0.41 (10.5)	0.42 (10.7)	0.47 (12.0)	0.52 (13.3)	0.58 (14.7)	0.58 (14.7)	0.60 (15.3)	0.66 (16.7)
<b>Cable Weight - lb/kft (kg/km)</b>	63 (94)	63 (94)	83 (123)	97 (145)	120 (178)	108 (160)	116 (172)	140 (207)
Handling (All Fiber Counts)								
<b>Minimum Bend Radius, with Load</b>	15 x OD* (Outer Diameter)							
<b>Minimum Bend Radius, with No Load</b>	10 x OD							
<b>Minimum Bend Radius, Storage Coils</b>	10 x OD							
<b>Maximum Rated Cable Load (MRCL)</b>	600 lb. (2700 N)							
<b>Maximum Long-Term Load</b>	180 lbf (800 N)							
* NOTE: OD = Outer Diameter of Cable, minimum of 6 in. (15 cm). See OFS Installation Procedure 042 for sheath preparation and coiling instructions.								
Performance Standard (All Fiber Counts)								
Tested per Applicable Requirements of ANSI/ICEA S-87-640 and Telcordia GR-20 CORE Issue 4								
Temperature (All Fiber Counts)								
<b>Installation</b>	-22 °F to 140 °F (-30 °C to 60 °C)							
<b>Operation</b>	-76 °F to 158 °F (-60 °C to 70 °C)							
<b>Storage</b>	-40 °F to 167 °F (-40 °C to 75 °C)							

Fiber Type <sup>2</sup>						
Single-Mode Optical Fiber	Fiber (S1)	Fiber (S2)	Fiber (SF)	Fiber Standard	Wavelengths (nm)	Maximum Cable on Reel Attenuation (dB/km)
<b>200 µm AllWave+ ZWP Single-Mode Fiber</b>	2	B	E	G.652.D/G.657.A1	1310/1385/1550	0.35/0.31/0.25
<b>200 µm AllWave FLEX ZWP Single-Mode Fiber</b>	8	B	E	G.652.D/G.657.A1	1310/1385/1550	0.35/0.31/0.25

Fortex 2DT Light Armor Cable Ordering Information		
Example: AT-2BEH22T-NNN <sup>1</sup>		
Part Number: 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>S1 = Fiber Selection</b> See S1 in Fiber Type table above.	<b>S3 = Sheath Construction</b> H = Single Jacket, Single Armor	<b>S6 = Fibers per Tube</b> 2 = 2 4 = 4 6 = 6 8 = 8 T = 12
<b>S2 = Fiber Transmission Performance</b> See S2 in Fiber Type table above.	<b>S4 = Tensile Load</b> 2 = 600 lb (2700 N)	
<b>SF = Fiber Type<sup>2</sup></b> See SF in Fiber Type table above.	<b>S5 = Core Type</b> 2 = 2.0 mm Totally Gel-Free Loose Tube	<b>NNN = Fiber Count</b> 002 to 288

<sup>1</sup> Part Number shown is for standard AllWave+ ZWP attenuation and standard cable print. Standard Print, example Fortex 2DT Light Armor Cable: OFS OPTICAL CABLE AT-2BEH22T-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, fiber counts, attenuation and custom cable print.

**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) USA or 1-770-798-5555 outside the USA.



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