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.

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
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

<table>
<thead>
<tr>
<th>Fiber Count</th>
<th>2-60</th>
<th>61-72</th>
<th>73-96</th>
<th>97-120</th>
<th>121-144</th>
<th>145-216</th>
<th>217-240</th>
<th>241-288</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable Outer Diameter in. (mm)</td>
<td>0.51 (12.9)</td>
<td>0.54 (13.6)</td>
<td>0.60 (15.3)</td>
<td>0.67 (17.0)</td>
<td>0.73 (18.6)</td>
<td>0.74 (18.7)</td>
<td>0.77 (19.5)</td>
<td>0.84 (21.3)</td>
</tr>
<tr>
<td>Cable Weight lb/kft (kg/km)</td>
<td>105 (156)</td>
<td>116 (172)</td>
<td>142 (211)</td>
<td>177 (264)</td>
<td>210 (312)</td>
<td>199 (296)</td>
<td>218 (325)</td>
<td>236 (351)</td>
</tr>
</tbody>
</table>

### 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 Armored Cable Ordering Information

Example: **AT-3BEN2YT-NNN**

<table>
<thead>
<tr>
<th>Part Number: AT-</th>
<th>S1</th>
<th>S2</th>
<th>S3</th>
<th>S4</th>
<th>S5</th>
<th>S6</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fiber Selection</strong></td>
<td>3 = 1310/1550 nm (AllWave® ZWP Single-Mode Fiber)</td>
<td>6 = 1550 nm (TrueWave® RS LWP Single-Mode Fiber)</td>
<td>R = 850/1300 nm (Multimode Fiber)</td>
<td></td>
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</tr>
<tr>
<td><strong>Fiber Transmission Performance</strong></td>
<td>B = 0.350/0.310/0.27/0.25/0.27 dB/km @ 1310/1385/1490/1550/1625 nm (AllWave ZWP/ AllWave FLEX ZWP)</td>
<td>2 = 0.25 dB/km @ 1550 nm (TrueWave RS LWP)</td>
<td>U = 3.4/1.0 dB/km and 200/500 MHz-km @ 850/1300 nm (62.5 μm Multimode)</td>
<td>K = 2.5/07 dB/km and 500/600 MHz-km @ 850/1300 nm (50 μm Multimode)</td>
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<td></td>
</tr>
<tr>
<td><strong>Sheath Construction</strong></td>
<td>N = Double Jacket, Single Armor</td>
<td></td>
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</tr>
<tr>
<td><strong>Sheath Construction</strong></td>
<td>N = Totally Dry Loose Tube</td>
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</tr>
<tr>
<td><strong>Sheath Core Fiber Count</strong></td>
<td>F = Fibers per Tube</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Sheath Core Fiber Count</strong></td>
<td>T = 12 fibers</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td><strong>Sheath Core Fiber Count</strong></td>
<td>NNN = Fiber Count = 002 – 288</td>
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</tr>
</tbody>
</table>

1. Part Number shown is for standard AllWave ZWP attenuation and standard cable print: Maximum AllWave ZWP attenuation: 0.350/0.310/0.27/0.25/0.27 dB/km (1310/1385/1490/1550/1625 nm)

For additional information please contact your sales representative. You can also visit our website at www.ofsoptics.com or call 1-888-fiberhelp (1-888-342-3741) 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.

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