

Fortex™ DT Cable

Single Jacket



A Furukawa Company

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

Product Description

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

To construct this all-dielectric 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 to offer exceptional water-blocking performance and faster cable preparation. Dielectric strength elements, a ripcord, and a durable polyethylene jacket complete the cable construction.

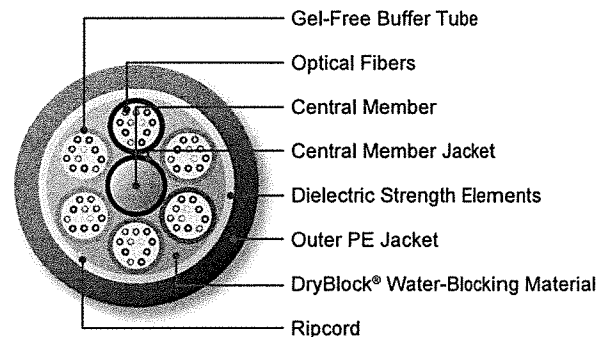
Why the Fortex DT Single Jacket Cable?

As the industry's first 100%¹ dry loose tube cable to meet the water-blocking requirements of ANSI/ICEA and Telcordia OSP cable standards, Fortex DT Single Jacket Cable offers all the benefits of a standard loose tube cable plus it's completely dry – even inside of the buffer tubes!

Unlike traditional OSP fiber optic cables that use gels in direct contact with optical fibers, Fortex DT Single Jacket 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. Dry cables are also lighter in weight, making them easier to handle and less of a load on your work crew and plant infrastructure.

In addition to being completely gel-free, Fortex DT Single Jacket Cable offers the same high-performance features as OFS' traditional loose tube cables. Our 2.5 mm buffer

Fortex™ DT Single Jacket
Loose Tube Cable



Features and Benefits

- Totally dry, gel-free cable design for cleaner, faster installations
- Highly durable and reliable for duct and lashed aerial installations (including duct-to-lashed aerial) and general OSP installations
- 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.

tubes – among the smallest standard tubes in the industry – create far less bulk to be stored in closures and pedestals. Smaller, more flexible buffer tubes also coil more easily and into tighter diameters.

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.

Specifications

Fiber Count	2-60	61-72	73-96	97-120	121-144	145-216	217-240	241-288
Cable Outer Diameter in. (mm)	0.40 (10.1)	0.42 (10.7)	0.49 (12.5)	0.56 (14.1)	0.62 (15.7)	0.61 (15.4)	0.64 (16.2)	0.71 (18.0)
Cable Weight lb/kft (kgm/km)	47 (70)	53 (79)	69 (103)	97 (145)	112 (166)	97 (145)	109 (162)	134 (200)

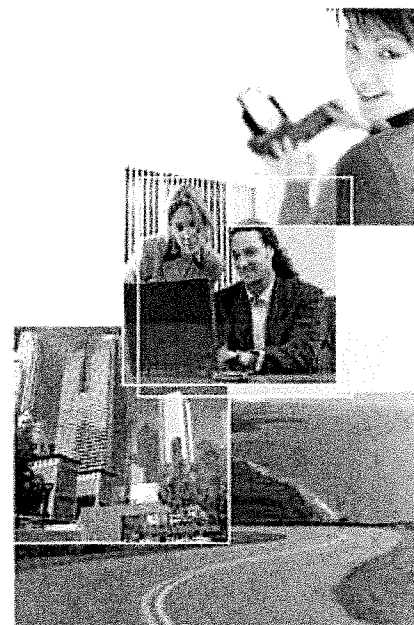
Performance Standard

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 Single Jacket Cable Ordering Information

Example: AT-3BE12YT-NNN¹

Part Number: AT-		Fiber ²		Sheath		Core		Fiber Count	
		<u>S1</u>	<u>S2</u>	<u>SF</u>	<u>S3</u>	<u>S4</u>	<u>S5</u>	<u>S6</u>	- <u>NNN</u>
S1 = Fiber Selection		SF = Fiber Type		S5 = Core Type					
3 = 1310/1550 nm (AllWave® ZWP Fiber)		B = AllWave ZWP		Y = Totally Dry Loose Tube					
6 = 1550 nm (TrueWave® RS LWP Fiber)		6 = TrueWave RS LWP							
R = 850/1300 nm (Multimode)		9 = 62.5/125 µm Multimode		S6 = Fibers Per Tube					
		2 = 50/125 µm Multimode		T = 12 fibers					
S2 = Fiber Transmission Performance		S3 = Sheath Construction		NNN = Fiber Count = 002 to 288					
B = 0.35/0.31/0.27/0.25/0.27 dB/km		1 = Single Jacket All-Dielectric							
(1310/1385/1490/1550/1625 nm AllWave ZWP)									
2 = 0.25 dB/km (TrueWave RS LWP)									
U = 3.4/1.0 dB/km and 200/500 MHz-km									
(850/1300 nm Multimode)									
K = 2.5/0.7 dB/km and 500/500 MHz-km									
(50 µm Multimode)									
		S4 = Tensile Load							
		2 = 600 lb (2700 N)							

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 Single Jacket Cable):

OFS OPTICAL CABLE AT-3BE12YT-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.



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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.

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