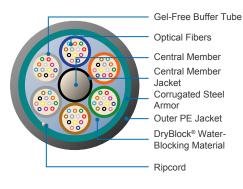


Fortex™ DT Light Armor Fiber Optic Cable

Lose the Gel with Durable, Totally Gel-Free Fiber Optic Cable for Cleaner, Faster Installations



Fortex[™] DT Light Armor Loose Tube Fiber Optic Cable



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
- Available with OFS applicationspecific fibers including AllWave®
 Zero Water Peak (ZWP) and AllWave+ ZWP Single-Mode, TrueWave® RS LWP Single-Mode and Multimode optical fibers

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 gel-free 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 gel-free, 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.

Why the Fortex DT Light Armor Cable?

As the industry's first 100% gel-free¹, 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.

^{1 1 &}quot;100% gel free" 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: 61-72 73-96 97-120 121-144 145-216 217-240 241-288 2-60 Outer Diameter - in. (mm) 0.46 (11.6) 0.48 (12.3) 0.55 (14.0) 0.62 (15.7) 0.69 (17.6) 0.68 (17.3) 0.71 (18.1) 0.78 (19.9) Weight - lb/kft (kgm/km) 75 (111) 87 (129) 105 (157) 136 (203) 163 (243) 144 (215) 161 (239) 192 (286)

Performance Standard (all cables)

Tested per Applicable Requirements of ANSI/ICEA S-87-640 and Telcordia GR-20-CORE Issue 4.

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, minimum of 6 in. (15 cm). See OFS Installation Procedure 042 for sheath preparation and coiling instructions.

Fiber Type ²									
	Fiber	Fiber	Fiber	Fiber		Typical *	Maximum Cable on Reel		
Single-Mode Fiber	(S1)	(S2)	(SF)	Standards	Wavelengths (nm)	Attenuation (dB/km)	Attenuation (dB/km)		
AllWave® ZWP Fiber	3	В	Е	G.652.D	1310/1385/1550	-	0.35/0.31/0.25		
AllWave+ ZWP Fiber	3	С	Е	G.652.D/G.657.A1	1310/1385/1550	-	0.35/0.31/0.25		
AllWave FLEX ZWP Fiber	5	В	Е	G.652.D/G.657.A1	1310/1385/1550	-	0.35/0.31/0.25		
AllWave One Fiber	3	F	Е	G.652.D/G.657.A1	1310/1385/1550	0.33/0.31/0.19	0.34/0.31/0.22		
AllWave ULL Fiber	3	Н	Е	G.652.D/G.657.B	1310/1550	0.31/0.17	0.33/0.19		
TrueWave® RS LWP Fiber	6	2	6	G.655.C&D	1550	0.21	0.25		
TeraWave® Fiber	6	2	R	G.654.B	1550	0.19	0.25		
TeraWave ULL Fiber	6	9	R	G.654.B	1550	0.18	0.22		
Multimode Fiber									
62.5 µm Fiber	R	U	9	OM1 62.5 μm	850/1300	-	3.4/1.0		
LaserWave® FLEX 300 Fiber	L	F	2	OM3 50 μm	850/1300	-	2.4/0.7		
LaserWave FLEX 550 Fiber	L	Н	2	OM4 50 μm	850/1300	-	2.4/0.7		

Fortex DT Light Armor Loose Tube Cable Ordering Information

S1 = Fiber Selection

Example: AT-3BEH2YT-NNN 1

Part Number: AT- S1 S2 SF S3 S4 S5 S6 - NNN S3 = Sheath Construction

H = Single Jacket, Single Armor

S6 = Fibers per Tube

S5 = Core Type

S2 = Fiber Transmission Performance See S2 in Fiber Type table above

See S1 in Fiber Type table above

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

T = 12 fibers

NNN = Fiber Count = 002 - 288

Y = Totally Gel-Free Loose Tube

SF = Fiber Type ² See SF in Fiber Type table above

¹ Part Number shown is for a Fortex DT Light Armor Cable with 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 for Fortex DT Light Armor Cable: OFS OPTICAL CABLE AT-3BEH2YT-NNN [MM-YY] (UL) US TYPE OFNR [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.

NOTE: For more information regarding typical attenuation as well as attenuation parameters on Link Design Value (LDV) (Maximum end-to-end attenuation over a concatenated span), please see OFS Application Note AN-111 which can be downloaded at www.ofsoptics.com or contact your OFS representative.

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





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