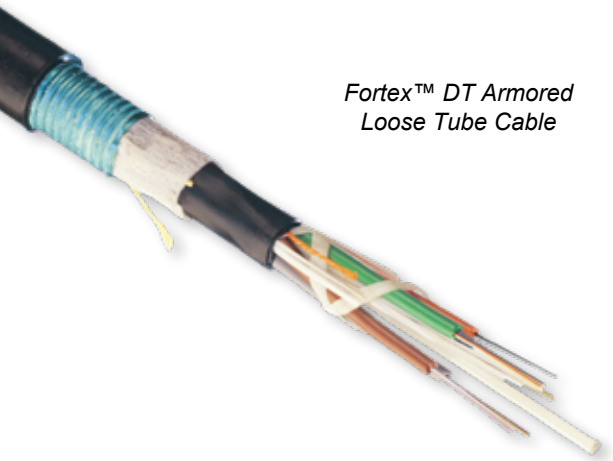




A Furukawa Company

Fortex™ DT Armored Cable

Lose The Gel With Completely Gel-Free, Highly Durable Cable for Cleaner, Faster Installations



Fortex™ DT Armored Loose Tube Cable

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
- Available with OFS application-specific fibers including AllWave® Zero Water Peak (ZWP), AllWave FLEX ZWP and AllWave+ ZWP Single-Mode, TrueWave® RS LWP Single-Mode, and Multimode Fibers.

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. A specially-engineered, super-absorbent yarn in the space-efficient 2.5 mm buffer tubes and additional dry, super-absorbent material added to the cable core provide exceptional water-blocking performance and faster cable preparation.

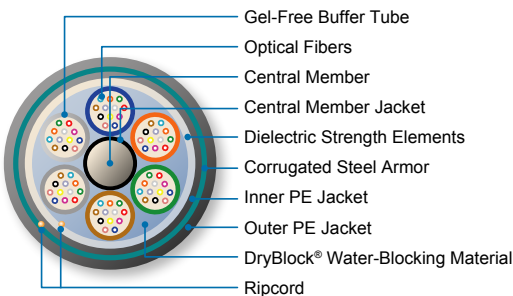
Why the Fortex DT Armored Cable?

As the industry's first 100%¹ gel-free 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 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



¹ “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:	2-60	61-72	73-96	97-120	121-144	145-216	217-240	241-288
Outer Diameter - in. (mm)	0.51 (12.9)	0.54 (13.7)	0.61 (15.5)	0.68 (17.2)	0.75 (19.0)	0.74 (18.8)	0.78 (19.6)	0.84 (21.4)
Weight - lb/kft (kgm/km)	93 (138)	107 (159)	134 (199)	158 (235)	190 (283)	175 (260)	192 (286)	220 (327)

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*	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)
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)	

* **NOTE:** OD = Outer Diameter of Cable, minimum of 6 in. (15 cm). See OFS Installation Procedure 042 for sheath preparation and coiling instructions.

Fiber Type²

Single-Mode Fiber	Fiber (S1)	Fiber (S2)	Fiber (SF)	Fiber Standards	Wavelengths (nm)	Typical * Attenuation (dB/km)	Maximum Cable on Reel Attenuation (dB/km)
AllWave® ZWP Fiber	3	B	E	G.652.D	1310/1385/1550	-	0.35/0.31/0.25
AllWave+ ZWP Fiber	3	C	E	G.652.D/G.657.A1	1310/1385/1550	-	0.35/0.31/0.25
AllWave FLEX ZWP Fiber	5	B	E	G.652.D/G.657.A1	1310/1385/1550	-	0.35/0.31/0.25
AllWave One Fiber	3	F	E	G.652.D/G.657.A1	1310/1385/1550	0.33/0.31/0.19	0.34/0.31/0.22
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	H	2	OM4 50 μm	850/1300	-	2.4/0.7

Fortex DT Armored Loose Tube Cable Ordering Information

Example: AT-3BEN2YT-NNN¹ Part Number: AT- S1 S2 SF S3 S4 S5 S6 - NNN

S1 = Fiber Selection See S1 in Fiber Type table above	S3 = Sheath Construction N = Double Jacket, Single Armor	S5 = Core Type Y = Totally Gel-Free Loose Tube
S2 = Fiber Transmission Performance See S2 in Fiber Type table above	S4 = Tensile Load 2 = 600 lb. (2700 N)	S6 = Fibers per Tube T = 12 fibers
SF = Fiber Type² See SF in Fiber Type table above	NNN = Fiber Count = 002 – 288	

¹ Part Number shown is for a Fortex DT Armored 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 Armored Cable: OFS OPTICAL CABLE AT-3BEN2YT-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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