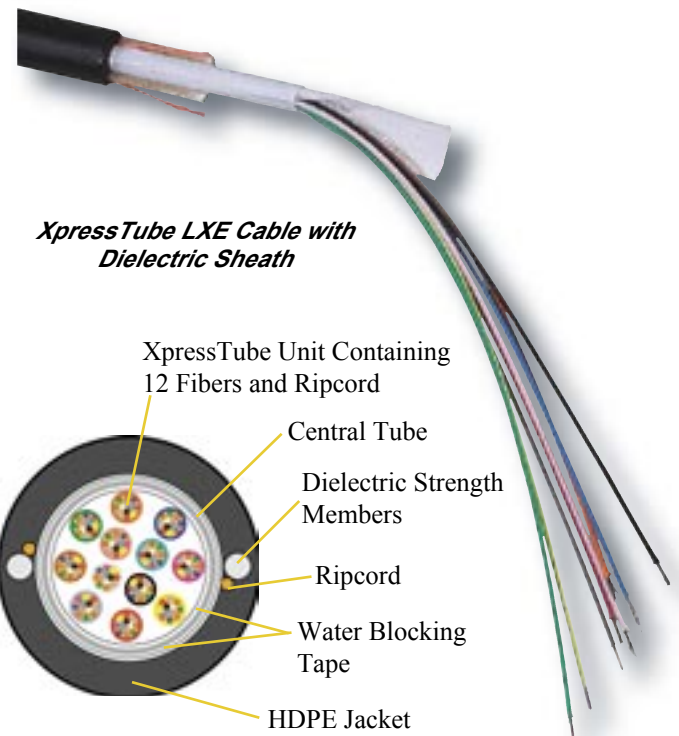
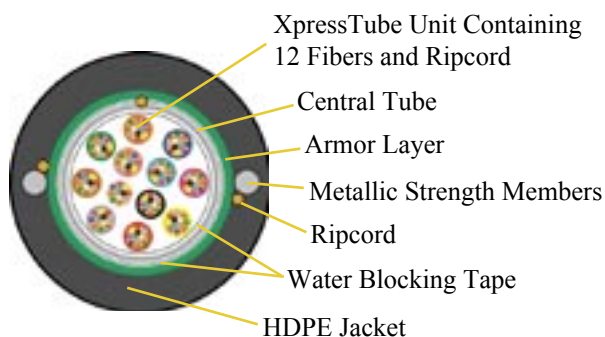
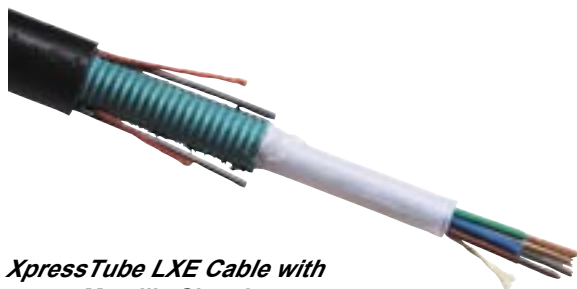


XpressTube[®] LXE Cable

Offering Easy Handling and Fast Installation in Metropolitan and Access Networks

Product Description

The OFS XpressTube[®] LXE Fiber Optic Cable contains up to 144 fibers in twelve, highly flexible XpressTube units. Each XpressTube unit consists of a unique jacket that surrounds 12 fibers and a ripcord. Fiber counts range from 24 to 144 fibers contained in two to twelve XpressTube units. Dielectric and metallic sheath options with integrated strength members and a high-density polyethylene (HDPE) jacket are available.



Features and Benefits

- Small outside cable diameter for easy installation
- Minimal filling compound for less cleaning effort
- Kink resistant XpressTube units reduce bend related problems
- Highly flexible XpressTube units offer excellent fiber organization and more efficient storage in closures and other termination points
- Metallic and dielectric sheath options to support direct-buried, duct, and lashed-aerial installations
- Available with all OFS fiber types, including AllWave[®] and TrueWave[®] fibers

Why the XpressTube LXE Cable?

The XpressTube LXE cable provides expedient routing and fiber access, a great advantage in the deployment of distribution cables in metropolitan and access networks. By combining the XpressTube LXE cable with OFS's industry-leading, application-specific optical fibers, service providers can further enhance the value of their fiber networks. The XpressTube LXE Cable is compatible with our comprehensive line of fiber organizing systems for a superior end-to-end fiber connectivity solution.

Test and Methods

Cable Test	Test Method *	Requirement	Notes
Tensile Loading and Bending	TIA/EIA-455-33 (IEC 60794-1-E1)	90% ≤ 0.05 dB Max. Added Loss (100% ≤ 0.15 dB Max. Added Loss)	2
Cyclic Flexing	TIA/EIA-455-104 (IEC 60794-1-E6)	90% ≤ 0.05 dB Max. Added Loss (100% ≤ 0.15 dB Max. Added Loss)	2
Cyclic Impact	TIA/EIA-455-25 (IEC 60794-1-E4)	90% ≤ 0.05 dB Max. Added Loss (100% ≤ 0.15 dB Max. Added Loss)	2
Compressive Loading	TIA/EIA-455-41 (IEC 60794-1-E3)	90% ≤ 0.05 dB Max. Added Loss (100% ≤ 0.15 dB Max. Added Loss) 440 N/cm (250 lbf/in) Load	2
Twist	TIA/EIA-455-85 (IEC 60794-1-E7)	90% ≤ 0.05 dB Max. Added Loss (100% ≤ 0.15 dB Max. Added Loss)	2
Low and High Temperature Bend	TIA/EIA-455-37 (IEC 60794-1-E11)	90% ≤ 0.05 dB Max. Added Loss (100% ≤ 0.15 dB Max. Added Loss)	2
External Freezing	TIA/EIA-455-98 (IEC 60794-1-F6)	90% ≤ 0.05 dB Max. Added Loss (100% ≤ 0.15 dB Max. Added Loss)	2
Fiber Strippability	TIA/EIA-455-178 No equiv IEC proc	≤9.0 N (2 lbf) on unaged and aged fiber, ≥1.0N (0.2 lbf) on unaged and aged fiber	2
Temperature Cycling	TIA/EIA-455-3 (IEC 60794-1-F1)	≤ 0.05 dB/km Mean Added Loss (≤ 0.15 dB/km Max Added Loss)	2
Cable Aging	TIA/EIA-455-3 (IEC 60794-1-F1)	≤ 0.10 dB/km Mean Added Loss (≤ 0.25 dB/km Max Added Loss)	2
Water Penetration	TIA/EIA-455-82 (IEC 60794-1-F5)	No flow after 24 hours from one meter length of cable	1
Sheath-to-Ground Dielectric Strength		≥ 20 kV for all armored metallic sheaths	2
Compound Drip	TIA/EIA-455-81 (IEC 60794-1-E14)	70°C, 24 hours duration, no drip	2
Lightning Conduction	TIA/EIA-455-181 (ITU-T K.25)	ICEA** Category I for all armored metallic sheaths	2

Notes: 1. Routine Requirements (RR), 2. Qualification Requirement (QR)
 * OFS complies with the latest revision of the TIA/EIA Test Method (There is not exact correspondence of TIA/EIA Fiber Optic Test Procedures (FOTPs) and IEC Test Methods.)
 ** ICEA categories are equivalent to those of Telcordia GR-20

Specifications

Metallic Sheath Specifications			
Fiber Count:	24, 36, 48	72, 96	144
Outside Diameter - mm (in.):	13 (0.51)	15.5 (0.61)	18 (0.71)
Cable Weight - kg /km (lb/kft):	161 (108)	211 (142)	263 (177)
Dielectric Sheath Specifications			
Fiber Count:	24, 36, 48	72, 96	144
Outside Diameter - mm (in.):	13 (0.51)	15.5 (0.61)	18 (0.71)
Cable Weight - kg /km (lb/kft):	121 (81)	153 (103)	200 (134)
Handling			
Fiber Count:	24, 36, 48	72, 96	144
Minimum Bend Diameter with Load - cm (in.):	52 (20.4)	62 (24.4)	72 (28.4)
Minimum Bend Diameter without Load - cm (in.):	26 (10.2)	31 (12.2)	36 (14.2)
Maximum Pulling Load (all fiber counts) - kN (lb):	2.7 (600)		
Maximum Operational Load (all fiber counts) - kN (lb):	0.8 (180)		
Temperature (all fiber counts)			
Installation:	-30°C to 60°C (-22°F to 140°F)		
Operation:	-40°C to 70°C (-40°F to 158°F)		
Storage:	-40°C to 75°C (-40°F to 167°F)		

Ordering Information

Cable Codes	Metallic Sheath	Dielectric Sheath
Single-mode AllWave Fiber	A1SX-NNN-BXD	A13X-NNN-BXD
62.5 micron Multimode	A1SX-NNN-BXC	A13X-NNN-BXC
	31SX-NNN-HXM	313X-NNN-HXM
NNN = number of fibers		
Maximum reel length: 6 km		
BXC = 0.35 / 0.25 dB/km at 1310 / 1550 nm		
BXD = 0.40 / 0.30 dB/km at 1310 / 1550 nm		
HXM = 3.4 / 1.0 dB/km @ 850 / 1300 nm; 200 / 500 MHz-km bandwidth @ 850 / 1300 nm		
Available with AllWave and TrueWave fibers, 62.5 micron multimode and other fiber types. Other transmission characteristics are available on a special order basis.		

For additional information please contact your sales representative. You can also visit our website at <http://www.ofsoptics.com> or call 1-888-fiberhelp.

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osp-102-0103

