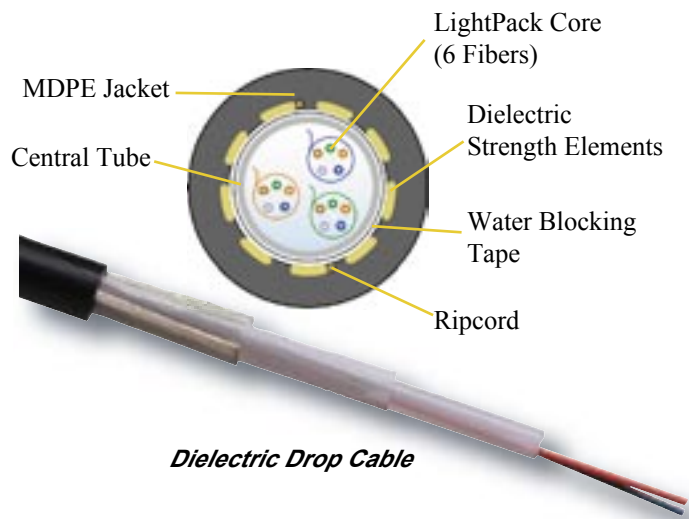


Mini LXE and Dielectric Drop Cables

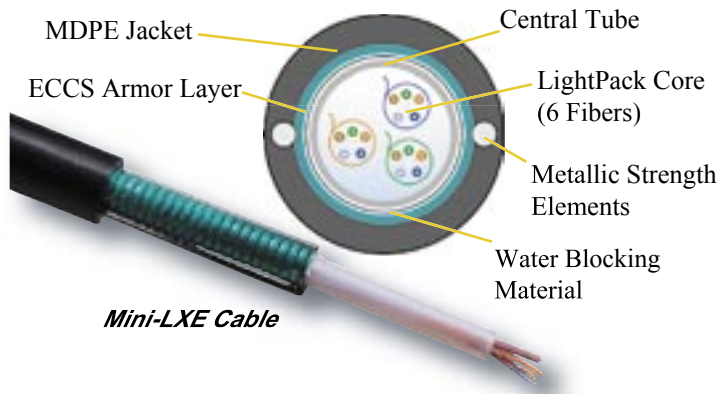
Compact and Rugged Fiber Cables for Your Last Optical Link

Product Description

The Mini-LXE and Dielectric Drop Cables are size-optimized for a maximum of 18 fibers. The filled central tube holds fibers that are separated into color coded binder groups of six fibers. The Mini-LXE cable has an overlapping armor of corrugated, electrolytically chrome coated steel (ECCS) that envelops the central tube. Two steel wires run longitudinally along the armor, diametrically positioned to each other. The Dielectric Drop cable has dielectric strength members that are integrated into the sheath for tensile strength. The outer jacket of both cables is medium density polyethylene (MDPE) to offer protection in the rugged outside plant environments.



Dielectric Drop Cable



Mini-LXE Cable

Features and Benefits

- Optimized for fiber counts up to 18 for minimizing deployment costs
- Small diameter and lightweight designs for easy installation and handling
- Compliant with all industry standards for reliable performance
- Available with OFS fiber types, including AllWave® and TrueWave® fibers
- Compatible with our comprehensive line of fiber apparatus and fiber organizing systems for a superior end-to-end fiber connectivity solution
- Also available with AccuRibbon® fibers to support the speed advantages of mass splicing

Why the Mini-LXE and Dielectric Drop Cables?

The small size and light weight of the Mini-LXE and Dielectric Drop cables provide a more efficient package and a more cost-effective solution for the smaller fiber counts that are needed in the last optical link of your network. These designs are suitable for underground conduit, direct buried, or aerial applications. Additionally, these cables provide excellent optical, mechanical and environmental performance in a compact and reliable design.

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 equivalent IEC procedure	≤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 2 for 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

Mini-LXE (Armored Drop) Specifications

Fiber Count:	1 - 18
Outside Diameter - mm (in.):	9.1 (0.36)
Cable Weight - kg /km (lb/kft):	92 (62)

Dielectric Drop Specifications

Fiber Count:	1 - 18
Outside Diameter - mm (in.):	7.6 (0.30)
Cable Weight - kg /km (lb/kft):	45 (30)

Handling

Cable Design

Minimum Bend Diameter with Load:	40 x Outside Diameter
Minimum Bend Diameter without Load:	20 x Outside Diameter
Maximum Pulling Load - kN (lb):	1.8 (400) Mini-LXE 1.4 (300) Dielectric Drop
Maximum Operational Load (all fiber counts) - kN (lb):	0.54 (120) Mini-LXE 0.42 (90) Dielectric Drop

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	Mini-LXE	Dielectric Drop
Single-mode AllWave fiber	ADVX-NNN-BXD	ADDX-NNN-BXD
	ADVX-NNN-BXC	ADDX-NNN-BXC
62.5 micron Multimode	3DVX-NNN-HXM	3DDX-NNN-HXM

Above codes are for LightPack fiber unit cables
Maximum reel length: 21 km Mini-LXE, 8 km Dielectric Drop

NNN = number of fibers

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 fiber types include single-mode AllWave and TrueWave fibers, 62.5 micron multimode fiber 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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