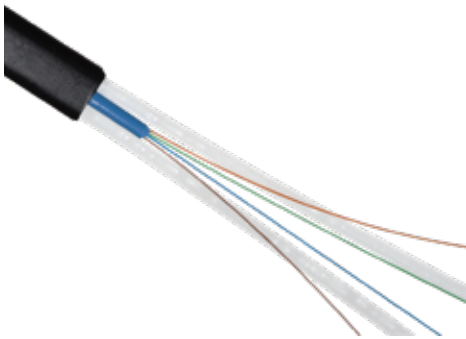




A Furukawa Company

Mini LT Flat Drop Fiber Optic Cable

Compact and Easy-to-Locate Fiber Optic Cable for the Last Link in Your FTTx Network

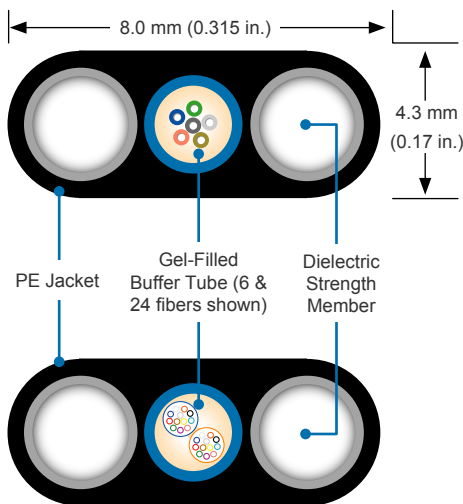


Mini LT Flat Drop Fiber Optic Cable



Diamond/Sachs Drop Wire Clamp
(Aluminum 1-2 pair, serrated shim)

Mini LT Flat Drop Fiber Optic Cable Cross-Section



Features and Benefits

- Compact, easy-to-access design allows for streamlined installation and handling
- Suitable for self-supporting aerial, direct buried, and duct FTTx drop installations
- Compatible with industry-standard wedge clamps and closure strain reliefs
- Excellent tensile strength and crush resistance
- Optimized for optical fiber counts of 1, 2, 4, 6, 12, and 24 for minimizing deployment costs
- All-dielectric construction eliminates the need for bonding or grounding
- 300 pound Maximum Rated Cable Load (MRCL)
- Standard availability with AllWave® Zero Water Peak (ZWP) Single-Mode Optical Fiber
- AllWave *FLEX* ZWP Optical Fiber available as an option

Product Description

The Mini LT Flat Drop Cable offers a compact and lightweight yet durable, self-supporting fiber optic design in an easily accessible construction.

To construct the cable, up to 12 optical fibers are placed in a 2.0 mm gel-filled buffer tube (a 3.0 mm buffer tube for 24-fiber cable) to create a flexible and easy-to-access core. Next, two fiberglass rods are placed diametrically opposite on either side of the fiber core, providing excellent crush resistance and tensile strength during installation and over the lifetime of the cable. The strength member rods and fiber core are then encapsulated in a durable polyethylene (PE) jacket to create a flat cable cross-section and provide added protection to the cable core.

Why The Mini LT Flat Drop Cable?

The small, lightweight Mini LT Flat Drop Cable offers an ideal solution for the smaller fiber counts that are needed in the final sections of an optical network, particularly in a fiber-to-the-premise (FTTx) installation. The buffer tube fiber core allows easy access in a flexible design that is easy to handle and install.

The rugged, flat construction of the Mini LT Cable is specifically designed for self-supporting aerial deployments and is fully compatible with the type of aerial hardware shown on the reverse page, allowing faster, lower cost installations. The superior crush resistance and durability of the Mini LT Cable make it robust enough for below-grade installations in ducts or open trenches.

The all-dielectric Mini LT Flat Drop Cable helps to save money by eliminating the need for expensive bonding or grounding.



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Mini LT Flat Drop Fiber Optic Cable

Mini LT Flat Drop Fiber Optic Cable	
Specifications	
Fiber Count	1, 2, 4, 6, 12, and 24
Cable Dimensions	0.17 in. x 0.315 in. (4.3 mm x 8.0 mm)
Weight - lb/kft (kgm/km)	21 (32)
Performance Standard (all cables)	
Tested per Applicable Requirements of ANSI/ICEA S-110-717	
Handling (all cables)	
Minimum Bend Radius, with Load	6 in. (15 cm)
Minimum Bend Radius, with No Load	3 in. (7.5 cm)
Minimum Bend Radius, Storage Coils	6 in. (15 cm)
Rated Installation Load	300 lbf (1335 N)
Maximum Long Term Load	90 lbf (405 N)
Temperature Installation:	-22 °F to 140 °F (-30 °C to 60 °C)
Operation:	-40 °F to 158 °F (-40 °C to 70 °C)
Storage:	-40 °F to 167 °F (-40 °C to 75 °C)

* NOTE: OD = Outer Diameter of Cable

Max Span and Loading Conditions - 2-12F Mini LT				
Storm Loading Region	1% Installation Sag		3% Installation Sag	
	Max Span	Installation Tension	Max Span	Installation Tension
Heavy	90 ft	27 lbf	115 ft	12 lbf
Medium	160 ft	48 lbf	210 ft	21 lbf
Light	280 ft	84 lbf	385 ft	39 lbf

Max Span and Loading Conditions - 24 F Mini LT				
Storm Loading Region	1% Installation Sag		3% Installation Sag	
	Max Span	Installation Tension	Max Span	Installation Tension
Heavy	100 ft	30 lbf	100 ft	10 lbf
Medium	200 ft	61 lbf	200 ft	20 lbf
Light	400 ft	121 lbf	400 ft	40 lbf

Fiber Type ²							
Single-Mode Optical Fiber	Fiber (S1)	Fiber (S2)	Fiber (SF)	Fiber Standards	Wavelengths (nm)	Typical* Attenuation (dB/km)	Maximum Cable on Reel Attenuation (dB/km)
AllWave® ZWP Optical Fiber	3	B	E	G.652.D	1310/1385/1550	-	0.35/0.31/0.25
AllWave+ ZWP Optical Fiber	3	C	E	G.652.D/G.657.A1	1310/1385/1550	-	0.35/0.31/0.25
AllWave FLEX ZWP Optical Fiber	5	B	E	G.652.D/G.657.A1	1310/1385/1550	-	0.35/0.31/0.25

Mini LT Flat Drop Fiber Optic Cable Ordering Information

Example: **AT-3BE8T7X-NNN¹**

Part Number: **AT- S1 S2 SF S3 S4 S5 S6 - NNN¹**

S1 = Fiber Selection See S1 Fiber Table above	S3 = Sheath Construction 8 = All Central Core Products	S5 = Sheath Design 7 = Flat Drop
S2 = Fiber Transmission Performance See S2 Fiber Table above	Cable Core Design S4 = T = Gel-Filled 2.0 mm Buffer Tube (3.0 mm Buffer Tube for 24-Fiber Cable)	S6 = Central Core - Oversheath X = No Oversheath
SF = Fiber Type² See SF Fiber Table above		NNN = Fiber Count 001, 002, 004, 006, 012, or 024

¹ Part Number shown is for a Mini LT Flat Drop 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 Mini LT Flat Drop Cable: **OFS OPTICAL CABLE AT-3BE8T7X-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.

³ Contact your OFS Customer Care Representative on the positioning of ribbon requirements if TeraWave Fiber is being ordered.

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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