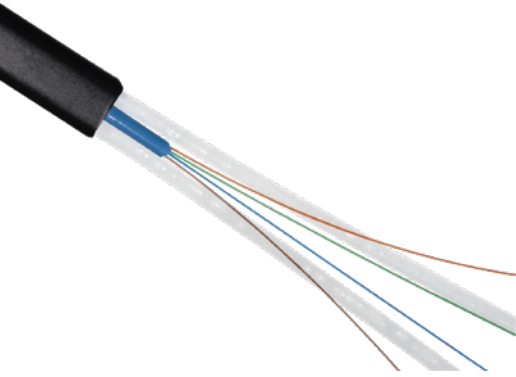




A Furukawa Company

# Mini LT Flat Drop Fiber Optic Cable

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

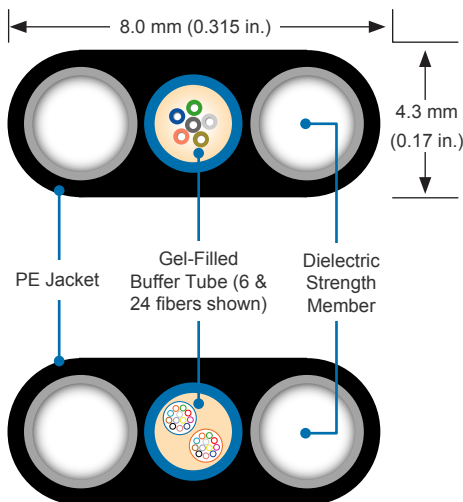


Mini LT Flat Drop Fiber Optic Cable



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 FT Tx 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, TrueWave® RS Low Water Peak (LWP) Single-Mode Optical Fiber, and Multimode Optical Fiber
- AllWave FLEX ZWP Optical Fiber available as an option
- RDUP (formerly RUS) listed and compliant with ANSI/ICEA, Telcordia, and IEC specifications for reliable performance

### 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.

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

\* NOTE: OD = Outer Diameter of Cable

Fiber Type <sup>2</sup>							
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
AllWave Low Loss Optical Fiber	3	A	E	G.652.D	1310/1385/1550	0.33/0.31/0.19	0.35/0.31/0.22
AllWave One Optical Fiber	3	F	E	G.652.D/G.657.A1	1310/1385/1550	0.33/0.31/0.19	0.35/0.31/0.22
Multimode Optical Fiber							
62.5 µm Optical Fiber*	R	U	9	OM1 62.5 µm	850/1300	-	3.4/1.0
LaserWave® FLEX 300 Optical Fiber*	L	F	2	OM3 50 µm	850/1300	-	2.4/0.7
LaserWave FLEX 550 Optical Fiber*	L	H	2	OM4 50 µm	850/1300	-	2.4/0.7

\* Not available for 24-fiber cables

### Mini LT Flat Drop Fiber Optic Cable Ordering Information

Example: **AT-3BE8T7X-NNN<sup>1</sup>**

Part Number: **AT- S1 S2 SF S3 S4 S5 S6 - NNN<sup>1</sup>**

<b>S1 = Fiber Selection</b> See S1 Fiber Table above	<b>S3 = Sheath Construction</b> 8 = All Central Core Products	<b>S5 = Sheath Design</b> 7 = Flat Drop
<b>S2 = Fiber Transmission Performance</b> See S2 Fiber Table above	<b>Cable Core Design</b>	<b>S6 = Central Core - Oversheath</b> X = No Oversheath
<b>SF = Fiber Type<sup>2</sup></b> See SF Fiber Table above	<b>S4 = T = Gel-Filled 2.0 mm Buffer Tube (3.0 mm Buffer Tube for 24-Fiber Cable)</b>	<b>NNN = Fiber Count</b> 001, 002, 004, 006, 012, or 024

<sup>1</sup> 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 #]**

<sup>2</sup> Contact OFS Order Management for information on other cable variations, including additional fiber types, attenuation, and custom cable print.

<sup>3</sup> 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](http://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](http://www.ofsoptics.com) or call 1-888-fiberhelp (1-888-342-3743) USA or 1-770-798-5555 outside the USA.

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
<b>Heavy</b>	90 ft	27 lbf	115 ft	12 lbf
<b>Medium</b>	160 ft	48 lbf	210 ft	21 lbf
<b>Light</b>	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
<b>Heavy</b>	100 ft	30 lbf	100 ft	10 lbf
<b>Medium</b>	200 ft	61 lbf	200 ft	20 lbf
<b>Light</b>	400 ft	121 lbf	400 ft	40 lbf



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