

## XLPO LSZH Gel Free I/O Loose Tube (LX Series)

Consisting of thermoset (XLPO) jacket, AFL's LX-series of low-smoke zero-halogen (LSZH) loose tube cables are specifically designed for harsh environments. Ideal for indoor and outdoor industrial applications, the cable design includes dry-core water blocking system, SZ-stranded core for easy mid-span access to fibers, and a highly chemical resistant, cross-linked UV-resistant outer jacket. For even greater mechanical robustness, a corrugated steel armor version is available. Applications include mining, industrial, railways, subways, and much more.

### Applications

- Subway tunnels
- Railway right-of-way
- Airport terminals
- Confined space pathways
- Steam tunnels
- Petrochemical facilities
- Industrial
- Mining
- Shipboard

### Temperature Range

Operating: -40°C to +70°C  
 Storage: -50°C to +75°C  
 Installation: -20°C to +60°C

### Crush\*

Armored: 550 N/cm (375 lbs/in)  
 Non-armored: 440 N/cm (250 lbs/in)

\* Standard loose tube cables are 220 N/cm (125 lbs/in)



**Rodent-deterrent Jacket Option Available**

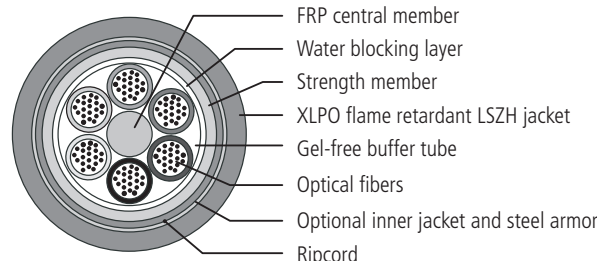
### Features

- Fiber counts up to 288
- Low smoke zero halogen, thermoset jacket
- Optional rodent resistant armor available
- Resistant to lubricating oil (Mil-L-23699), hydraulic fluid (Mil-H-5606), gasoline and deionized water
- Enhance Crush Resistance for installation in trays or other exposed runs

### Specifications

- IEEE 1202, UL 1685, CSA 22.2 FT4
- ANSI/ICEA-S-104-696, GR-20-CORE
- NEC OFN(C)G-LS listed (steel armor option)
- Meets or exceeds requirements of NFPA 130 and NFPA 502
- Suitable for installation in trays per NFPA 70

### Cable Components



### Maximum Lengths

FIBER COUNT	SINGLE-MODE		MULTIMODE	
	FEET	METERS	FEET	METERS
6 - 288	23,000	7,000	23,000	7,000

Longer lengths may be available upon request.

### Optical Information

FIBER TYPE	MAXIMUM ATTENUATION (DB/KM)				OVERFILL LAUNCH MIN. BANDWIDTH (MHZ•KM)		GIGABIT ETHERNET MIN. LINK DISTANCE (METERS)	
	850 NM	1300 NM	1310 NM	1550 NM	850 NM	1300 NM	850 NM	1300 NM
(6) 62.5/125 GIGA-Link™ 300	3.2	1.2	N/A	N/A	200	600	300	550
(8) 62.5/125 GIGA-Link™ 1000	3.2	1.2	N/A	N/A	350	600	500	1000
(5) 50/125 GIGA-Link™ 600	2.9	0.9	N/A	N/A	500	500	600	600
(7) 50/125 GIGA-Link™ 2000	2.9	0.9	N/A	N/A	500	800	750	2000
(L) 50/125 Laser-Link 300	2.9	0.9	N/A	N/A	1500	500	900	550
(9) Single-mode	N/A	N/A	0.35	0.25	N/A	N/A	N/A	5000
(K) SM Futureguide SR-15e Bend Insensitive	N/A	N/A	0.35	0.25	N/A	N/A	N/A	5000

Gigabit Ethernet Minimum Link Distances are based on "bandwidth"/modal dispersion constraints. Actual link distances may be constrained by attenuation, depending on specific loss budget.

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### Ordering Information

AFL NO.	FIBER COUNT	NUMBER OF TUBES/FIBERS	NOMINAL DIAMETER		NOMINAL WEIGHT		MAXIMUM TENSILE LOAD LBS (N)		MINIMUM BEND RADIUS INCHES (CM)	
			INCHES	MM	LBS/1,000 FT	KG/KM	SHORT TERM	LONG TERM	SHORT TERM	LONG TERM
<b>NON-ARMORED (OFNG-LS)</b>										
LX006★C5101N1D	6	1w/6 (4 fillers)	0.44	11.1	82	123	600 (2670)	180 (800)	11 (22)	4 (11)
LX012★C5101N1D	12	1w/12 (4 fillers)	0.44	11.1	82	123	600 (2670)	180 (800)	11 (22)	4 (11)
LX024★C5101N1D	24	2w/12 (3 fillers)	0.44	11.1	82	123	600 (2670)	180 (800)	11 (22)	4 (11)
LX036★C5101N1D	36	3w/12 (2 fillers)	0.44	11.1	82	123	600 (2670)	180 (800)	11 (22)	4 (11)
LX048★C5101N1D	48	4w/12 (1 filler)	0.44	11.1	82	123	600 (2670)	180 (800)	11 (22)	4 (11)
LX060★C5101N1D	60	5w/12 (no fillers)	0.44	11.1	82	123	600 (2670)	180 (800)	11 (22)	4 (11)
LX072★C5101N1D	72	6w/12 (no fillers)	0.47	11.9	93	138	600 (2670)	180 (800)	11 (24)	5 (12)
LX096★C8101N1D	96	8w/12 (2 fillers)	0.53	13.5	113	167	600 (2670)	180 (800)	13 (27)	5 (13)
LX144★CC101N1D	144	12w/12 (1 filler)	0.67	17.0	147	219	600 (2670)	180 (800)	15 (34)	7 (17)
LX288★CO301N1D	288	24w/12 (no fillers)	0.78	19.9	206	306	600 (2670)	180 (800)	18 (40)	8 (19)
<b>ARMORED (OFCG-LS)</b>										
LX006★C5111S1D	6	1w/6 (4 fillers)	0.51	13	121	179	600 (2670)	200 (890)	12 (26)	5 (13)
LX012★C5111S1D	12	1w/12 (4 fillers)	0.51	13	121	179	600 (2670)	200 (890)	12 (26)	5 (13)
LX018★C5111S1D	18	1w/12,1w/6 (3 fillers)	0.51	13	121	179	600 (2670)	200 (890)	12 (26)	5 (13)
LX024★C5111S1D	24	2w/12 (3 fillers)	0.51	13	121	179	600 (2670)	200 (890)	12 (26)	5 (13)
LX030★C5111S1D	30	2w/12,1w/6 (2 fillers)	0.51	13	121	179	600 (2670)	200 (890)	12 (26)	5 (13)
LX036★C5111S1D	36	3w/12 (2 fillers)	0.51	13	121	179	600 (2670)	200 (890)	12 (26)	5 (13)
LX048★C5111S1D	48	4w/12 (1 filler)	0.51	13	121	179	600 (2670)	200 (890)	12 (26)	5 (13)
LX060★C5111S1D	60	5w/12 (no fillers)	0.51	13	121	179	600 (2670)	200 (890)	12 (26)	5 (13)
LX072★C5111S1D	72	6w/12 (no fillers)	0.54	14	134	199	600 (2670)	200 (890)	13 (28)	5 (14)
LX096★C8101S1D	96	8w/12 (2 fillers)	0.61	15	156	232	600 (2670)	180 (800)	14 (31)	6 (15)
LX144★CC101S1D	144	12w/12 (1 filler)	0.74	19	202	300	600 (2670)	180 (800)	17 (38)	7 (19)
LX288★CO301S1D	288	24w/12 (no fillers)	0.86	22	268	399	600 (2670)	180 (800)	19 (44)	9 (22)

#### NOTES:

1. Diameter and weight subject to change without notice.

2. For other types of LSZH Cables, please contact your AFL Representative.

★ Fiber Types-Replace asterisk (★) in AFL number with number corresponding to desired fiber type below

5 = 50/125 μm multimode GIGA-Link™ 600

L = 50/125 μm multimode Laser-Link™ 300

7 = 50/125 μm multimode GIGA-Link™ 2000

9 = Single-mode

6 = 62.5/125 μm multimode GIGA-Link™ 300

Q = Non-zero dispersion-shifted single-mode

8 = 62.5/125 μm multimode GIGA-Link™ 1000

K = SM Futureguide SR-15e Bend Insensitive

### Reel Information

ITEM	REEL A		REEL B		REEL C		REEL D		REEL E	
	INCHES	CM	INCHES	CM	INCHES	CM	INCHES	CM	INCHES	CM
Reel Height	42	106.7	58	147.3	66	167.6	72	182.8	84	213.4
Reel Width Outside	36	91.4	38	96.5	42	106.7	42	106.7	40	101.6
Reel Width Inside	32	81.6	32	81.3	36	91.4	36	91.4	34	86.4
Drum Diameter	23	58.7	28	71.1	36	91.4	36	91.4	35	88.9
Arbor Hole Diameter	3	7.9	3	7.9	3	7.9	3	7.9	3	7.9
Reel Weight With Lagging	180 lbs	82 kg	420 lbs	191 kg	685 lbs	311 kg	710 lbs	320 kg	950 lbs	431 kg

AFL typically provides Loose Tube cable on several standard sizes of non-returnable wooden reels. Non-standard reel sizes are available upon request.

Larger reel sizes may be required to accommodate long cable lengths.