

XLPO LSZH Double-Jacket 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
- Industrial
- Mining
- Shipboard

Temperature Specifications

TEMPERATURE RANGE	
INSTALLATION	-20°C to +60°C
OPERATING	-40°C to +70°C
STORAGE	-50°C to +75°C

Crush*

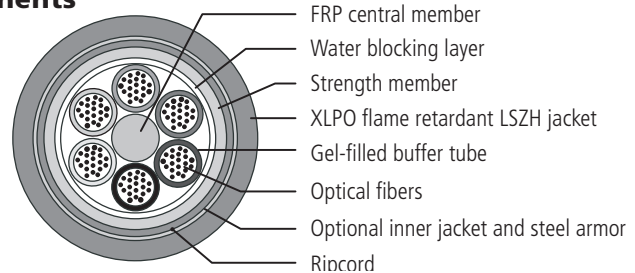
ARMORED	550 N/cm (375 lbs/in)
NON-ARMORED	440 N/cm (250 lbs/in)

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

Features

- Fiber counts up to 72
- 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
- NEC OFNG-LS listed
- NEC OFCG-LS listed (steel armor option)
- Meets or exceeds requirements of NFPA 130 and NFPA 502

Cable Components



Maximum Lengths

FIBER COUNT	SINGLE-MODE		MULTIMODE	
	FEET	METERS	FEET	METERS
2 - 72	23,000	7,000	23,000	7,000

Longer lengths may be available upon request.

Fiber Specifications

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	3.5	1.2	N/A	N/A	200	600	300	550
(5) 50/125 GIGA-Link™ 600	2.9	0.9	N/A	N/A	500	500	600	600
(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
(Q) Non-zero Dispersion-shifted Single-mode	N/A	N/A	N/A	0.25	N/A	N/A	N/A	N/A
(K) AFL G.657.A1 Single-mode	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		MINIMUM BEND RADIUS	
			INCHES	MM	LBS/1,000 FT	KG/KM	LBS (N)		INCHES (CM)	
							SHORT TERM	LONG TERM	SHORT TERM	LONG TERM
NON-ARMORED (OFNG-LS)										
LX006★C5101N1	6	1w/6 (4 fillers)	0.47	11.9	92	137	600 (2670)	180 (800)	9.4 (24)	4.7 (12)
LX012★C5101N1	12	1w/12 (4 fillers)	0.47	11.9	92	137	600 (2670)	180 (800)	9.4 (24)	4.7 (12)
LX024★C5101N1	24	2w/12 (3 fillers)	0.47	11.9	91	136	600 (2670)	180 (800)	9.4 (24)	4.7 (12)
LX036★C5101N1	36	3w/12 (2 fillers)	0.47	11.9	91	136	600 (2670)	180 (800)	9.4 (24)	4.7 (12)
LX048★C5101N1	48	4w/12 (1 filler)	0.47	11.9	90	134	600 (2670)	180 (800)	9.4 (24)	4.7 (12)
LX060★C5101N1	60	5w/12 (no fillers)	0.47	11.9	90	134	600 (2670)	180 (800)	9.4 (24)	4.7 (12)
LX072★C5101N1	72	6w/12 (no fillers)	0.53	13.5	105	156	600 (2670)	180 (800)	10.6 (27)	5.3 (13.5)
ARMORED (OFCG-LS)										
LX006★C5111S1	6	1w/6 (4 fillers)	0.60	15.2	129	192	600 (2670)	200 (890)	12.4 (32)	6.2 (16)
LX012★C5111S1	12	1w/12 (4 fillers)	0.60	15.2	131	194	600 (2670)	200 (890)	12.4 (32)	6.2 (16)
LX018★C5111S1	18	1w/12, 1w/6 (3 fillers)	0.60	15.2	132	196	600 (2670)	200 (890)	12.4 (32)	6.2 (16)
LX024★C5111S1	24	2w/12 (3 fillers)	0.60	15.2	132	196	600 (2670)	200 (890)	12.4 (32)	6.2 (16)
LX030★C5111S1	30	2w/12, 1w/6 (2 fillers)	0.60	15.2	132	196	600 (2670)	200 (890)	12.4 (32)	6.2 (16)
LX036★C5111S1	36	3w/12 (2 fillers)	0.60	15.2	132	196	600 (2670)	200 (890)	12.4 (32)	6.2 (16)
LX048★C5111S1	48	4w/12 (1 filler)	0.60	15.2	132	197	600 (2670)	200 (890)	12.4 (32)	6.2 (16)
LX060★C5111S1	60	5w/12 (no fillers)	0.60	15.2	132	198	600 (2670)	200 (890)	12.4 (32)	6.2 (16)
LX072★C6111S1	72	6w/12 (no fillers)	0.63	16.1	153	228	600 (2670)	200 (890)	13.0 (33)	6.5 (17)

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 in the Fiber Specifications table on previous page.

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.