

Gel-Free Extreme Low Temp LSZH Double Jacket I/O Loose Tube (LA Series Gel-Free)

The LA-Series is specially designed for applications that demand reliable performance in harsh environment installations. The cable construction incorporates a variety of packaging technologies that allow the product to operate in extremely low temperatures, mechanically abusive installations and highly caustic and acidic environments. The key to the reliable, ultra-high performance is the specially designed cable core and the dual layer jacketing system.

The cable core is constructed using materials and engineered geometry that optimizes the isolation of the optical fibers from the stresses and strains imparted on the cable and commonly realized in extreme environments. The outer jacketing is designed to further protect the ruggedized core assembly with a multiplying system made up of a double-ply, low smoke zero halogen (LSZH) flame resistant jacketing system that integrates a strong layer of aramid yarn between the inner and outer sheaths.

Applications

Network Connectivity for:

- Oil and Gas fields
- Low Temperature Environments
- Refineries
- Mining
- Mass Transit

Temperature Specifications

TEMPERATURE RANGE	
INSTALLATION	-30°C to +50°C
OPERATING	-55°C to +70°C
STORAGE	-60°C to +75°C

Mechanical

PARAMETER	VALUE
Crush	440N/CM
Cold Impact	8.8 N*m
Tensile	
Installation	1,000 lbs (4,450N)
Operational	400 lbs (1,780N)

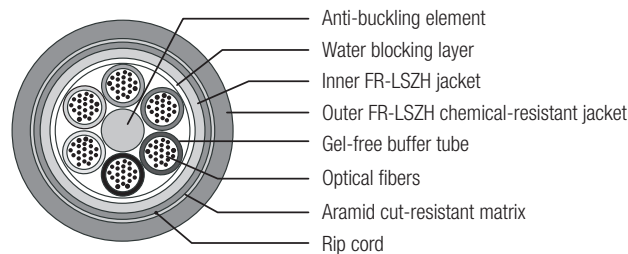
Features

- Gel-Free buffer tubes
- Fiber Range 12-288
- Suitable for direct burial and tray installations per UL 1277
- Increased tensile load rating
- 2X Crush Resistance compared to standard fiber optic cables
- 2X Cold Impact Resistance compared to standard fiber optic cables
- Self-supporting capability (contact factory for system design support)

Specifications

- OFNG-LS Listed, CSA-FT4, IEEE1202 and UL 1685
- Meets requirements of NFPA 130 and NFPA 502 for use in fixed guideway transit systems and road tunnels
- ICEA S-104-696
- CSA 22.2 No. 230 and 232
- Fluid immersion testing per ASTM D412
- Sunlight Resistant Jacket
- Oil Res II compliant Jacketing System
- Zero Halogen Per MIL PRF 85045

Cable Components



Rodent-deterrent Jacket
Option Available

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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.

Ordering Information

AFL NO.	FIBER COUNT	NOMINAL DIAMETER		NOMINAL WEIGHT		MAXIMUM TENSILE LOAD LBS (N)		MINIMUM BEND RADIUS INCHES (CM)	
		INCHES	MM	LBS/1,000 FT	KG/KM	INSTALLATION	OPERATION	INSTALLATION	OPERATION
LA012★C6111N1D	12	0.575	14.6	140	209	990 (4400)	290 (1300)	13(29.4)	6 (14.6)
LA024★C6111N1D	24	0.575	14.6	139	207	990 (4400)	290 (1300)	13(29.4)	6 (14.6)
LA048★C6111N1D	48	0.575	14.6	136	202	990 (4400)	290 (1300)	13(29.4)	6 (14.6)
LA072★C6111N1D	72	0.575	14.6	133	197	990 (4400)	290 (1300)	13(29.4)	6 (14.6)
LA096★C8111N1D	96	0.638	16.2	156	233	990 (4400)	290 (1300)	15(32.6)	6 (16.2)
LA144★CC111NI D	144	0.776	19.7	199	297	990 (4400)	290 (1300)	18(39.6)	8 (19.7)
LA288★C03111NI D	288	0.89	22.6	264	393	990 (4400)	290 (1300)	20(45.4)	9 (22.6)

★ Fiber Types – Replace asterisk (★) in AFL number with number in the Fiber Specifications table above.