



ezLINK™ Oil & Gas Utility Riser LSZH Loose Tube (dry)

Industrial / Chemical Resistant / Indoor-Outdoor Low-Smoke / Zero-Halogen Cables





Multiuse indoor/outdoor cables for heavy duty industrial applications involving cable trays and spaces where extreme mechanical durability is vital. Riser flame rating & low smoke without the use of halogenated materials provides life-safety benefits.

Overview

Prysmian's ezLINK™ indoor/outdoor gel free industrial heavy duty riser LSZH loose tube designs provide flame-rated network solutions for network applications in harsh mechanical / environmental locations. These cables combine a robust, flame retardant LSZH jacket material, flexible dry buffer tubes and swellable water blocking with Prysmian's extensive portfolio of single-mode optical fibers. Because of its application diversity, this advanced product eliminates the necessity/expense for traditional cable transition points once required in legacy systems. This design has been evaluated for tray cable applications using standards such as CSA 22.2 No 230, UL 1277 and NFPA 70.

Product Snapshot

Applications Versatile heavy duty indoor-outdoor cable

designed for industrial communication and control systems. Riser rating with complementary reduced smoke and hazardous emissions

capability.

Constructions Dielectric (dual jacket)

Flame Ratings Riser - low smoke (OFNR-LS / FT4 ST1)

Fiber Count 2 to 288 fibers

Fiber Types Single-mode (ESMF, bend-insensitive)

Multimode (62.5/125-OM1)

Performance TIA/EIA-568, ANSI/ICEA S-83-596, ANSI/

ICEA S-104-696, UL 1666, UL 1277, CSA 22.2 No. 230 & 232; Telcordia GR-409, Telcordia

GR-20, CE RoHS Compliant

Registered ISO 9001, ISO 14001, TL 9000, and

Supplier OHSAS 18001



Features and Benefits

- 4500N compressive loading performance
- Ideal for applications with more severe hazards such as industrial complexes, transportation systems and tunnel networks
- Fiber identification using TIA standardized color coding
- Chemical resistant
- Dry buffer tubes simplifies access and reduces prep time
- Flame-retardant, black UV-resistant LSZH outer jacket
- Flexible kink-resistant buffer tubes for routing and storage
- Available with bend-insensitive single-mode optical fibers
- Meets CSA C22.2 No. 230 abnormal low temperature - impact test at -25°C

Temperature Range

 Shipping and Storage:
 -58° F to +158° F
 (-50° C to +70° C)

 Installation:
 -22° F to +140° F
 (-30° C to +60° C)

 Operation:
 -58° F to +158° F
 (-50° C to +70° C)

Mechanical Specifications

Maximum installation load: 1000 lbf (4450 N) Maximum operation load: 300 lbf (1330 N)









Tray













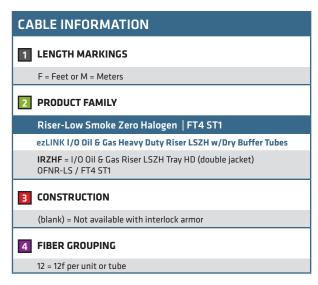
ezLINK™ Oil & Gas | Riser LSZH | High Crush | Loose Tube (dry)

Industrial | Chemical Resistant | Tray Rated | Indoor/Outdoor Cables

Ordering GuideThe Prysmian Group part number incorporates several significant attributes involving cable design and optical performance. The appropriate part number can be configured using the process described below.

Example: ezLINK™ I/O Oil & GAS Heavy Duty Riser LSZH with Dry Buffer Tubes | 48 62.5/125 multimode fibers (printed in feet)

1 LENGTH PRODUCT FAMILY	3 CONSTRUCTION	4 FIBER GROUPING	5 FIBER TYPE	6 FIBER COUNT	7 FIBER GRADE
F – IRZHF	BLANK	- 12	- G6	– 048	- M2



FIB	BER INFORMATION	ON						
5	FIBER TYPE							
	SINGLE-MODE							
	HB = Single-Mode (ITU G.652 C & D) Low Water Peak							
	ES = Enhanced Single-Mode (ITU G.652 C & D)							
	CE = Corning™ SMF28e+ Single-Mode							
	B1 = Bend-Insensitive Single-Mode (ITU G.657.A1 & G.652.D)							
	B2 = Bend-Insensitive Single-Mode (ITU G.657.A2 & .B2, & G.652.D)							
	MULTIMODE	Wavelength (nm)	Bandwidth (MHz)	1 GbE Dist (m)	10 GbE Dist (m)			
	G6 = OM1 (62.5µm)	850/1300	200/500	300/550	33/			
6	FIBER COUNT							
	002 to 288 fibers							
	002 to 200 fibers							
7	FIBER GRADE							
7		Wavelength (nn	ı) Fiber Tyı	pe				
7	FIBER GRADE SINGLE-MODE	Wavelength (nn 1310/1383/1550	, ,					
7	FIBER GRADE SINGLE-MODE Attenuation (dB/km)		HB, ES, o					
7	FIBER GRADE SINGLE-MODE Attenuation (dB/km) E1 = 0.40/0.40/0.30	1310/1383/1550	HB, ES, o	or CE 31, B2, or CE				
7	FIBER GRADE SINGLE-MODE Attenuation (dB/km) E1 = 0.40/0.40/0.30 E3 = 0.35/0.35/0.25 MULTIMODE	1310/1383/1550 1310/1383/1550	HB, ES, o	or CE 31, B2, or CE se				

Nominal Design Parameters

ezLINK" Oil & Gas Utility Heavy Duty Riser Dielectric (Double Jacket) | IRZHF Series | OFNR-LS / FT4 ST1

Fiber Count	# of Buffer Tubes Outer/Inner Layer	Fibers Per Unit	Diameter inches (mm)	Cable Weight lb/kft (kg/km)	Bend Radius Load inches (cm)	Bend Radius No Load inches (cm)
2 to 72	6	12	0.66 (16.7)	177 (263)	13.2 (33.4)	6.6 (16.7)
74 to 84	7	12	0.69 (17.5)	194 (288)	13.8 (35.0)	6.9 (17.5)
86 to 96	8	12	0.72 (18.3)	212 (315)	14.4 (36.6)	7.2 (18.3)
98 to 108	9	12	0.76 (19.4)	238 (354)	15.3 (38.9)	7.6 (19.4)
110 to 120	10	12	0.79 (20.0)	253 (376)	15.8 (40.0)	7.9 (20.0)
122 to 132	11	12	0.82 (20.9)	276 (410)	16.5 (41.8)	8.2 (20.9)
134 to 144	12	12	0.85 (21.7)	299 (445)	17.1 (43.4)	8.5 (21.7)
146 to 216	12 / 6	12	0.88 (22.3)	287 (427)	17.6 (44.6)	8.8 (22.3)
218 to 264	14 / 8	12	0.94 (23.9)	327 (486)	18.9 (47.8)	9.5 (23.9)
266 to 288	15 / 9	12	0.98 (25.0)	355 (529)	19.7 (50.0)	9.9 (25.0)

Note: Cable damage may occur if installation temperature limits are exceeded; therefore, Prysmian Group recommends storing I/O cables in appropriate temperature conditions ≥ 24 hours prior to placement.

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Prysmian Group