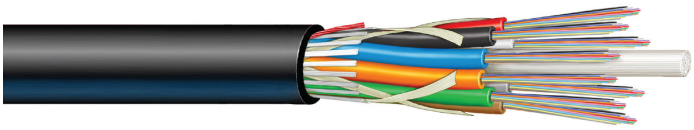
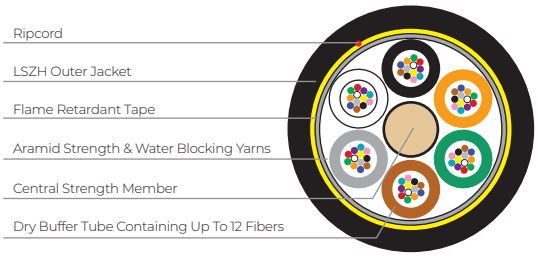
ezLINK™ Industrial LSZH Loose Tube (Dry)

Indoor/Outdoor Low-Smoke / Zero-Halogen Cables





OVERVIEW

Prysmian's indoor/outdoor dry Industrial LSZH loose tube designs provide flame-rated network solutions for a diverse number of network applications. 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 and multimode optical fibers. Because of its application diversity, this advanced product eliminates the necessity/expense for traditional cable transition points once required in legacy systems. Available in several design options, both with and without metallic armor, to right-size the cable option to the inherent demands of specific applications.

SPECIFICATIONS / RATINGS

Applications	Versatile indoor/outdoor cable designed for industrial communication and control systems. Riser or Tray rating with complementary reduced smoke and hazardous emissions. Suitable for installations in cable trays per NFPA-70
Constructions	Dielectric (single & dual jacket), ezPREP® corrugated armor, interlocked armor
Flame Ratings	Riser - low smoke (OFNR-ST1 / OFCR-ST1 / FT4 ST1) Tray - OFNG-ST1 / FT4 ST1
Fiber Count	2 to 288
Fiber Types	Single-mode (ESMF, bend-insensitive) multimode (62.5/125- OM1, 50/125- OM2+, OM3, OM4 and OM5)
Standards	TIA/EIA-568, ANSI/ICEA S-83-596, ANSI/ICEA S-104-696, CSA 22.2 No. 230 Telcordia GR-409, Telcordia GR-409 Telcordia GR-20, UL-1666, IEEE 1202, NFPA 130 compliant, CE RoHA Compliant
Registered Supplier	TL 9000, ISO 9001, ISO 14001, and OHSAS 18001

FEATURES AND BENEFITS

- Fiber identification using TIA standardized color coding
- 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 and multimode optical fibers
- Ideal for applications with more severe hazards such as industrial complexes, transportation systems and tunnel networks
- Will support all high performance networks including OM5/100 gigabit ethernet systems
- Sunlight Resistant, SUN RES, according to UL 1651 and CSA C22.2 No. 232
- Tray Rated as per applicable requirements of UL 1277 and CSA C22.2 No. 232

CE
RoHS Compliant

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TLS-DS-D-401-0725

ezLINK™ Industrial LSZH Loose Tube (Dry)

Indoor/Outdoor Low-Smoke / Zero-Halogen Cables

ezLink™ Industrial Dielectric Single LSZH Jacket (1J - Dry), IRZHB Series | 12-60F OFNR-ST1/FT4 ST1 | 72+ OFCG-ST1/ FT4 ST1

Fiber Count Range	Rec. Fiber Count	Recommended Part Number		# of Buffer Tubes	Diameter		Approx. Cable Weight		Bend Radius | Load		Bend Radius | No Load		Max. Reel Length	
		Prysmian*	General Cable**		Inches	mm	lb/kft	kg/km	Inches	cm	inches	cm	feet	meters
6 - 48	6	IRZHB-12-AA-006-BB	XX0064M1Z-DT	5	0.43	11.0	77	115	9	22	4	11	41,010	12,500
	12	IRZHB-12-AA-012-BB	XX0124M1Z-DT											
	24	IRZHB-12-AA-024-BB	XX0244M1Z-DT											
	36	IRZHB-12-AA-036-BB	XX0364M1Z-DT											
	48	IRZHB-12-AA-048-BB	XX0484M1Z-DT											
72	72	IRZHB-12-AA-072-BB	XX0724M1Z-DT	6	0.46	11.8	85	126	9	24	5	12	41,010	12,500
96	96	IRZHB-12-AA-096-BB	XX0964M1Z-DT	8	0.50	12.7	96	143	10	25	5	13	41,010	12,500
120	120	IRZHB-12-AA-120-BB	XX1204M1Z-DT	10	0.57	14.4	123	183	11	29	6	14	41,010	12,500
144	144	IRZHB-12-AA-144-BB	XX1444M1Z-DT	12	0.63	16.1	155	231	13	32	6	16	41,010	12,500
216	216	IRZHB-12-AA-216-BB	XX2164M1Z-DT	18	0.66	16.8	153	226	13	34	7	17	33,573	10,233
288	288	IRZHB-12-AA-288-BB	XX2884M1Z-DT	24	0.77	19.5	205	304	15	39	8	20	33,573	10,233

ezLink™ Industrial Dielectric Double Jacket (2J - Dry) IRZHC series | OFNR-ST1 / FT4-ST1

Fiber Count Range	Rec. Fiber Count	Recommended Part Number	# of Buffer Tubes	Diameter		Approx. Cable Weight		Bend Radius | Load		Bend Radius | No Load		Max. Reel Length	
		Prysmian*		Inches	mm	lb/kft	kg/km	Inches	cm	inches	cm	feet	meters
6 - 48	6	IRZHC-12-AA-006-BB	5	0.52	13.2	117	174	10	26	5	13	41,010	12,500
	12	IRZHC-12-AA-012-BB											
	24	IRZHC-12-AA-024-BB											
	36	IRZHC-12-AA-036-BB											
	48	IRZHC-12-AA-048-BB											
72	72	IRZHC-12-AA-072-BB	6	0.55	13.9	126	188	11	28	5	14	41,010	12,500
96	96	IRZHC-12-AA-096-BB	8	0.62	15.8	161	239	12	32	6	16	41,010	12,500
120	120	IRZHC-12-AA-120-BB	10	0.69	17.4	196	291	14	35	7	17	35,377	10,783
144	144	IRZHC-12-AA-144-BB	12	0.76	19.2	235	350	15	38	8	19	35,377	10,783
216	216	IRZHC-12-AA-216-BB	18	0.78	19.7	153	350	16	39	8	20	25,633	7,813
288	288	IRZHC-12-AA-288-BB	24	0.88	22.4	205	444	18	45	9	22	25,633	7,813

* Where AA equals glass type and BB equals attenuation

** Where XX equals glass type

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 Performance

Maximum installation load:	600 lbf (2670 N)
(IRZHC Only):	1000 lbf (4450 N)
Maximum operation load:	180 lbf (800 N)
(IRZHC Only):	300 lbf (1330 N)

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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ezLINK™ Industrial LSZH Loose Tube (Dry)

Indoor/Outdoor Low-Smoke / Zero-Halogen Cables

ezLink™ Industrial Corrugated Steel Tape Armor with Double LSZH Jackets (1A2J - Dry) IRZHD series | OFCR-ST1 / FT4 ST1

Fiber Count Range	Rec. Fiber Count	Recommended Part Number	# of Buffer Tubes	Diameter		Approx. Cable Weight		Bend Radius | Load		Bend Radius | No Load		Max. Reel Length	
		Prysmian*		Inches	mm	lb/kft	kg/km	Inches	cm	inches	cm	feet	meters
6 - 48	6	IRZHD-12-AA-006-BB	5	0.63	16.0	192	285	13	32	6	16	41,010	12,500
	12	IRZHD-12-AA-012-BB											
	24	IRZHD-12-AA-024-BB											
	36	IRZHD-12-AA-036-BB											
	48	IRZHD-12-AA-048-BB											
72	72	IRZHD-12-AA-072-BB	6	0.66	16.8	206	306	13	34	7	17	41,010	12,500
96	96	IRZHD-12-AA-096-BB	8	0.73	18.5	247	368	15	37	7	19	37,497	11,429
120	120	IRZHD-12-AA-120-BB	10	0.80	20.3	294	438	16	41	8	20	25,974	7,917
144	144	IRZHD-12-AA-144-BB	12	0.87	22.1	343	510	17	44	9	22	25,974	7,917
216	216	IRZHD-12-AA-216-BB	18	0.90	22.9	153	517	18	46	9	23	20,436	6,229
288	288	IRZHD-12-AA-288-BB	24	1.00	25.4	205	631	20	51	10	25	20,436	6,229

ezLink™ I/O Industrial Corrugated Steel Tape Armor with Single LSZH Jacket (1A1J - Dry) IRZHE series | OFCG-ST1 / FT4 ST1

Fiber Count Range	Rec. Fiber Count	Recommended Part Number	# of Buffer Tubes	Diameter		Approx. Cable Weight		Bend Radius | Load		Bend Radius | No Load		Max. Reel Length	
		Prysmian*		Inches	mm	lb/kft	kg/km	Inches	cm	inches	cm	feet	meters
6 - 48	6	IRZHE-12-AA-006-BB	5	0.49	12.4	120	178	10	25	5	12	41,010	12,500
	12	IRZHE-12-AA-012-BB											
	24	IRZHE-12-AA-024-BB											
	36	IRZHE-12-AA-036-BB											
	48	IRZHE-12-AA-048-BB											
72	72	IRZHE-12-AA-072-BB	6	0.52	13.2	130	194	10	26	5	13	41,010	
96	96	IRZHE-12-AA-096-BB	8	0.58	14.7	158	235	12	29	6	15	41,010	12,500
120	120	IRZHE-12-AA-120-BB	10	0.65	16.5	192	286	13	33	6	17	37,917	11,557
144	144	IRZHE-12-AA-144-BB	12	0.72	18.3	232	346	14	37	7	18	37,917	11,557
216	216	IRZHE-12-AA-216-BB	18	0.72	18.3	153	346	14	37	7	18	29,495	8,990
288	288	IRZHE-12-AA-288-BB	24	0.82	20.8	205	391	16	42	8	21	29,495	8,990

Aluminum Interlocking Armor, Black Inner Jacket, Colored Outer Jacket, IRZHBAJ series | 12-60F OFCR-ST1/FT4 ST1 | 72+ OFCG-ST1/ FT4 ST1

Fiber Count Range	Rec. Fiber Count	Recommended Part Number	# of Buffer Tubes	Diameter		Approx. Cable Weight		Bend Radius | Load		Bend Radius | No Load		Max. Reel Length	
		Prysmian*		Inches	mm	lb/kft	kg/km	Inches	cm	inches	cm	feet	meters
6 - 48	6	IRZHBAJ-12-AA-006-BB	5	0.73	19.6	200	297	15	39	8	20	14,108	4,300
	12	IRZHBAJ-12-AA-012-BB											
	24	IRZHBAJ-12-AA-048-BB											
	36	IRZHBAJ-12-AA-036-BB											
	48	IRZHBAJ-12-AA-048-BB											
72	72	IRZHBAJ-12-AA-072-BB	6	0.76	20.3	242	360	16	41	8	20	10,827	3,300
96	96	IRZHBAJ-12-AA-096-BB	8	0.83	21.1	263	391	17	42	8	21	11,752	3,582
120	120	IRZHBAJ-12-AA-120-BB	10	0.92	23.4	341	507	18	47	9	23	8,235	2,510
144	144	IRZHBAJ-12-AA-144-BB	12	1.00	25.4	399	594	20	51	10	25	8,235	2,510
216	216	IRZHBAJ-12-AA-216-BB	18	1.02	25.9	405	602	20	52	10	26	6,102	1,860
288	288	IRZHBAJ-12-AA-288-BB	24	1.12	28.4	492	732	22	57	11	28	6,102	1,860

* Where AA equals glass type and BB equals attenuation

Outer Jacket Color for Interlock Armor

Yellow	Single-Mode Premises
Orange	Standard Multimode Premises
Aqua	Laser-Optimized 50 µm Premises

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 Performance

Maximum installation load:	600 lbf (2670 N)
(IRZHC Only):	1000 lbf (4450 N)
Maximum operation load:	180 lbf (800 N)
(IRZHC Only):	300 lbf (1330 N)

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Ordering Guide

The Prysmian 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™ loose tube | I/O industrial riser | dry buffer tubes | LSZH single jacket | 12 single-mode fibers per buffer tube | 72 fibers total (printed in feet)

1 LENGTH MARKINGS		2 PRODUCT FAMILY	3 CONSTRUCTION		4 FIBER GROUPING		5 FIBER TYPE		6 FIBER COUNT		7 FIBER GRADE
F	–	IRZHB	BLANK	–	12	–	HB	–	072	–	E1

PART NUMBER CONSTRUCTION

1 LENGTH MARKINGS

F = Feet or M = Meters

2 PRODUCT FAMILY

IRZHB = I/O Industrial LSZH Tray All-Dielectric (single jacket)
IRZHC = I/O Industrial Riser LSZH Tray All-Dielectric (double jacket)
IRZHD = I/O Industrial Riser LSZH Tray Armored (double jacket)
IRZHE = I/O Industrial LSZH Tray Armored (single jacket)
IRZHBAJ = ezINTERLOCK I/O LSZH Tray Interlock Armor

3 CONSTRUCTION

(Blank) = Not available with interlock armor
AJ = Jacket Aluminum

4 FIBER GROUPING

12 = 12f per unit or tube

FIBER INFORMATION

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)
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/___
G5 = OM2+ BIF (50µm)	850/1300	700/500	800	150/___
G3 = OM3 BIF (50µm)	850/1300	1500/500	1000	300/___
G4 = OM4 BIF (50µm)	850/1300	3500/500	1100	550/___
GW = OM5 (50µM)	850/1300	3500/500	1100	550/___

6 FIBER COUNT

002 to 288 fibers

7 FIBER GRADE

SINGLE-MODE Attenuation (dB/km)	Wavelength (nm)	Fiber Type
E1 = 0.40/0.40/0.30	1310/1383/1550	HB or ES
E3 = 0.35/0.35/0.25	1310/1383/1550	HB, ES, B1, or B2

MULTIMODE Attenuation (dB/km)	Wavelength (nm)	Fiber Type
M2 = 3.5/1.0	850/1300	OM1 (62.5µm)
M3 = 3.0/1.0	850/1300	OM2+, OM3, OM4, OM5 (50µm)

Other cable constructions and fiber performance grades available on request.

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