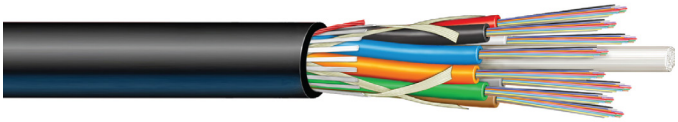
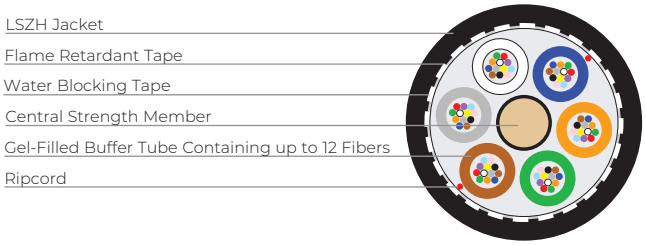
ezLink™ Transit / LSZH Loose Tube (Gel)

Low-Smoke Zero-Halogen Cable with Gel-Filled Buffer Tubes





OVERVIEW

Prysmian's ezLINK™ Transit LSZH loose tube designs provide flame-rated network solutions for a diverse number of network applications. These cables combine traditional gel-filled buffer tubes with swellable water blocking materials, a robust, flame retardant LSZH jacket material, Prysmian's extensive portfolio of single-mode and multimode optical fibers.

Incorporating proven outside plant design elements, this cable may be employed in outdoor aerial lashed, duct, cable tray & direct buried environments. Because of its application diversity, this advanced product eliminates the necessity/expense for traditional cable transition points once required in legacy systems. Cost savings & system long term reliability are achieved by enabling more cable placement options in the network.

SPECIFICATIONS / RATINGS

Applications	Versatile indoor-outdoor cable designed to reduce smoke and hazardous emissions in confined spaces
Constructions	Dielectric (single & dual jacket), corrugated armor, interlock armor
Flame Ratings	General purpose - low smoke (OFN-ST1/ OFC-ST1)
Fiber Count	2 to 216
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, UL 1685, CSA 22.2, Telcordia GR-409, Telcordia GR-20, CE RoHS Compliant
Registered Supplier	ISO 9001, ISO 14001, TL 9000, and OHSAS 18001

FEATURES AND BENEFITS

- Fiber identification using TIA standardized color coding
- Gel-filled buffer tubes for use in coastal regions that involve salt water
- Flame-retardant, black UV-resistant outer jacket
- Flexible kink-resistant buffer tubes for routing and storage
- Available with bend-insensitive single-mode and multimode optical fibers
- Ideal for applications where smoke generation and corrosivety are concerns
- Will support all high performance networks including OM5/100 gigabit ethernet systems

CE
RoHS Compliant

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ezLink™ Transit / LSZH Loose Tube (Gel)

Low-Smoke Zero-Halogen Cable with Gel-Filled Buffer Tubes

ezLink™ Transit Dielectric Single LSZH Jacket (1J - GEL), DLSZHB Series | OFN-ST1

Fiber Count Range	Recommended 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	DLSZHB-12-AA-006-BB	5	0.41	10.3	66	98	8	21	4	10	41,010	12,500
	12	DLSZHB-12-AA-012-BB											
	24	DLSZHB-12-AA-024-BB											
	36	DLSZHB-12-AA-036-BB											
	48	DLSZHB-12-AA-048-BB											
72	72	DLSZHB-12-AA-072-BB	6	0.44	11.2	78	116	9	22	4	11	41,010	12,500
96	96	DLSZHB-12-AA-096-BB	8	0.51	12.9	101	151	10	26	5	13	41,010	12,500
120	120	DLSZHB-12-AA-120-BB	10	0.58	14.8	136	203	12	30	6	15	41,010	12,500
144	144	DLSZHB-12-AA-144-BB	12	0.65	16.5	170	253	13	33	6	17	41,010	12,500
216	216	DLSZHB-12-AA-216-BB	18	0.65	16.5	170	253	13	33	6	17	33,465	10,200

ezLink™ Transit Dielectric Double Jacket (2J - GEL) DLSZHC series | OFN-ST1

Fiber Count Range	Recommended 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	DLSZHC-12-AA-006-BB	5	0.53	13.4	118	175	11	27	5	13	41,010	12,500
	12	DLSZHC-12-AA-012-BB											
	24	DLSZHC-12-AA-024-BB											
	36	DLSZHC-12-AA-036-BB											
	48	DLSZHC-12-AA-048-BB											
72	72	DLSZHC-12-AA-072-BB	6	0.56	14.3	136	202	11	29	6	14	41,010	12,500
96	96	DLSZHC-12-AA-096-BB	8	0.62	15.8	169	252	12	32	6	16	41,010	12,500
120	120	DLSZHC-12-AA-120-BB	10	0.70	17.7	218	325	14	35	7	18	35,377	10,783
144	144	DLSZHC-12-AA-144-BB	12	0.76	19.4	265	394	15	39	8	19	35,377	10,783
216	216	DLSZHC-12-AA-216-BB	18	0.76	19.4	265	394	15	39	8	19	25,633	7,813

* Where AA equals glass type and BB equals attenuation

Installation

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

Temperature Range

Shipping and Storage:	-40° F to +176° F	(-40° C to +80° C)
Installation:	-14° F to +140° F	(-10° C to +60° C)
Operation:	-40° F to +176° F	(-40° C to +80° C)

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™ Transit / LSZH Loose Tube (Gel)

Low-Smoke Zero-Halogen Cable with Gel-Filled Buffer Tubes

ezLink™ Transit Corrugated Steel Tape Armor with Double LSZH Jackets (1A2J - GEL) DLSZHD series | OFC-ST1

Fiber Count Range	Recommended 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	DLSZHD-12-AA-006-BB	5	0.60	15.2	179	267	12	30	6	15	41,010	12,500
	12	DLSZHD-12-AA-012-BB											
	24	DLSZHD-12-AA-024-BB											
	36	DLSZHD-12-AA-036-BB											
	48	DLSZHD-12-AA-048-BB											
72	72	DLSZHD-12-AA-072-BB	6	0.64	16.3	194	289	13	33	6	16	41,010	12,500
96	96	DLSZHD-12-AA-096-BB	8	0.70	17.8	222	330	14	36	7	18	37,497	11,429
120	120	DLSZHD-12-AA-120-BB	10	0.78	19.8	266	396	16	40	8	20	25,974	7,917
144	144	DLSZHD-12-AA-144-BB	12	0.85	21.7	306	455	17	43	9	22	25,974	7,917
216	216	DLSZHD-12-AA-216-BB	18	0.85	21.7	306	455	17	43	9	22	20,436	6,229

ezLink™ I/O Transit Aluminum Interlocking Armor with black inner jacket & colored outer jacket (1AI 2J - GEL) DLSZHBAJ series | OFC-ST1

Fiber Count Range	Recommended 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	DLSZHBAJ-12-AA-006-BB	5	0.73	18.8	212	315	15	38	7	19	14,108	4,300
	12	DLSZHBAJ-12-AA-012-BB											
	24	DLSZHBAJ-12-AA-048-BB											
	36	DLSZHBAJ-12-AA-036-BB											
	48	DLSZHBAJ-12-AA-048-BB											
72	72	DLSZHBAJ-12-AA-072-BB	6	0.76	19.8	234	348	16	40	8	20	10,827	3,300
96	96	DLSZHBAJ-12-AA-096-BB	8	0.86	21.8	305	454	17	44	9	22	11,752	3,582
120	120	DLSZHBAJ-12-AA-120-BB	10	0.94	23.9	366	545	19	48	9	24	8,235	2,510
144	144	DLSZHBAJ-12-AA-144-BB	12	1.00	25.4	422	628	20	51	10	25	8,235	2,510
216	216	DLSZHBAJ-12-AA-216-BB	18	1.00	25.4	422	628	20	51	10	25	6,102	1,860

* Where AA equals glass type and BB equals attenuation

Installation

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

Temperature Range

Shipping and Storage:	-40° F to +176° F	(-40° C to +80° C)
Installation:	-14° F to +140° F	(-10° C to +60° C)
Operation:	-40° F to +176° F	(-40° C to +80° C)

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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Low-Smoke Zero-Halogen Cable with Gel-Filled Buffer Tubes

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: Loose tube | indoor-outdoor LSZH gel-filled buffer tubes | single jacket | 12 Fiber per buffer tube | single-mode fibers | 48 fibers total (print in feet)

1 LENGTH MARKINGS	2 PRODUCT FAMILY	3 CONSTRUCTION	4 FIBER GROUPING	5 FIBER TYPE	6 FIBER COUNT	7 FIBER GRADE
F	– DLSZHB	BLANK	– 12	– HB	– 048	– E1

PART NUMBER CONSTRUCTION

1 LENGTH MARKINGS

F = Feet or M = Meters

2 PRODUCT FAMILY

Riser / FT4 | Dry Tubes | OFNR / FT4
DLSZHB = I/O LSZH Tray All-Dielectric (Single Jacket) | OFN_ST1
DLSZHC = I/O LSZH Tray All-Dielectric (Double Jacket) | OFN_ST1
DLSZHD = I/O LSZH Tray exPrep Armored (PSP) | OFC_ST1
DLSZHBAJ = ezInterlock I/O LSZH Tray Interlock Armored | OFC_ST1

3 CONSTRUCTION

(Blank) = None

AJ = Jacketed aluminum

SJ = Jacketed steel

4 FIBER GROUPING

12 = 12f per 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 BIF (50µm)	850/1300	4700/2470	1100	550/___

6 FIBER COUNT

002 to 216 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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