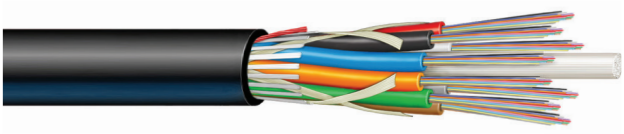
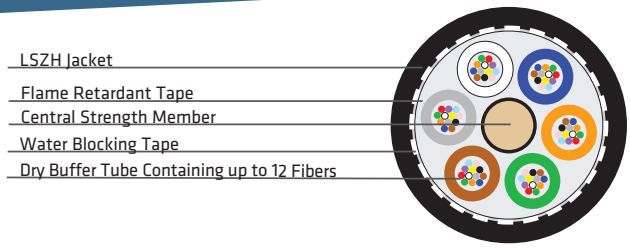
Prysmian Group

PRYSMIAN
Draka
General Cable

ezLINK™ Transit / LSZH Loose Tube (dry)

Low-smoke zero-halogen cables with gel-free buffer tubes





Popular cables for confined spaces demanding the additional safety of low smoke and flame retardants without the use of halogenated materials

Overview

Prysmian's ezLINK™ Transit /LSZH dry 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 & swellable water blocking availble with single-mode and multimode optical fibers.

Incorporating proven outside plant design elements, this cable may be employed in outdoor aerial lashed, duct, cable tray and 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 and system long term reliability are achieved by enabling cable placement virtually anywhere in the network.

Product Snapshot

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	Riser - low smoke (OFNR-LS/OFCR-LS/FT4 ST1) General purpose - low smoke (OFNG-LS/OFCG-LS/FT4 ST1) NFPA 130 Compliant
Fiber Count	2 to 288
Fiber Types	Single-mode (ESMF, bend-insensitive) multimode (62.5/125-OM1, 50/125-OM2+, OM3 & OM4)
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

CE
RoHS Compliant

Features and Benefits

- Fiber identification using TIA standardized color coding
- Gel-Free 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 transit applications in confined areas such as tunnels
- Will support all high performance networks including OM4/10 gigabit ethernet systems
- Direct buried, DIR BUR, according to UL 1277 and CSA C22.2 No. 230
- Sunlight Resistant, SUN RES, according to UL 1651 and CSA C22.2 No. 232
- NFPA 130 Compliant for Transit applications

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Low-smoke zero-halogen cables with gel-free buffer tubes

ezLINK™ Transit Dielectric Single Jacket, DDLSZHB Series | OFNG-LS / FT4 ST1

Fiber Count	# Buffer Tubes Outer/Inner Layer	Fibers Per Unit or # of Units	Diameter inches (mm)	Cable Weight lb/kft (kg/km)	Bend Radius Load inches (cm)	Bend Radius No Load inches (cm)
2 to 60	5	12	0.43 (11.0)	77 (115)	8.7 (22.0)	4.3 (11.0)
62 to 72	6	12	0.46 (11.8)	84 (126)	9.3 (23.6)	4.6 (11.8)
74 to 84	7	12	0.47 (11.9)	84 (126)	9.3 (23.8)	4.7 (11.9)
86 to 96	8	12	0.50 (12.7)	96 (143)	10.0 (25.4)	5.0 (12.7)
98 to 108	9	12	0.54 (13.8)	114 (169)	10.8 (27.5)	5.4 (13.8)
110 to 120	10	12	0.56 (14.4)	123 (183)	11.2 (28.5)	5.6 (14.3)
122 to 132	11	12	0.60 (15.2)	139 (207)	12.0 (30.5)	6.0 (15.3)
134 to 144	12	12	0.63 (16.1)	155 (231)	12.6 (32.0)	6.3 (16.0)
146 to 216	12 / 6	12	0.66 (16.8)	152 (226)	13.2 (33.6)	6.6 (16.8)
218 to 264	14 / 8	12	0.72 (18.4)	182 (271)	14.4 (36.6)	7.2 (18.3)
266 to 288	15 / 9	12	0.77 (19.5)	204 (304)	15.4 (39.2)	7.7 (19.6)

ezLINK™ Transit Dielectric Double Jacket, DDLSZHC Series | OFNR-LS / FT4 ST1

Fiber Count	# Buffer Tubes Outer/Inner Layer	Fibers Per Unit or # of Units	Diameter inches (mm)	Cable Weight lb/kft (kg/km)	Bend Radius Load inches (cm)	Bend Radius No Load inches (cm)
2 to 60	5	12	0.52 (13.2)	117 (174)	10.4 (26.5)	5.2 (13.2)
62 to 72	6	12	0.55 (13.9)	126 (188)	11.0 (28.0)	5.5 (14.0)
74 to 84	7	12	0.59 (15.0)	145 (216)	11.8 (30.0)	5.9 (15.0)
86 to 96	8	12	0.62 (15.8)	161 (239)	12.4 (31.5)	6.2 (15.8)
98 to 108	9	12	0.66 (16.9)	183 (273)	13.2 (33.6)	6.6 (16.8)
110 to 120	10	12	0.69 (17.4)	196 (291)	13.8 (35.1)	6.9 (17.6)
122 to 132	11	12	0.72 (18.3)	215 (320)	14.4 (36.6)	7.2 (18.3)
134 to 144	12	12	0.76 (19.2)	235 (350)	15.2 (38.6)	7.6 (19.3)
146 to 216	12 / 6	12	0.78 (19.7)	235 (350)	15.5 (39.4)	7.8 (19.7)
218 to 264	14 / 8	12	0.84 (21.3)	271 (404)	16.8 (42.6)	8.4 (21.3)
266 to 288	15 / 9	12	0.88 (22.4)	298 (444)	17.6 (44.8)	8.8 (22.4)

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.

Mechanical Specifications

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

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)

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ezLINK™ Transit / LSZH Loose Tube (dry)

Low-smoke zero-halogen cables with gel-free buffer tubes

ezLINK™ Transit Corrugated Steel Tape Armor with Double LSZH Jacket, DDLSZHD Series | OFCR-LS / FT4 ST1

Fiber Count	# Buffer Tubes Outer/Inner Layer	Fibers Per Unit or # of Units	Diameter inches (mm)	Cable Weight lb/kft (kg/km)	Bend RadiusLoad inches (cm)	Bend Radius No Load inches (cm)
2 to 60	5	12	0.63 (16.0)	192 (285)	12.6 (32.0)	6.3 (16.0)
62 to 72	6	12	0.66 (16.8)	206 (306)	13.2 (33.5)	6.6 (16.8)
74 to 84	7	12	0.70 (17.8)	229 (341)	14.0 (35.6)	7.0 (17.8)
86 to 96	8	12	0.73 (18.5)	247 (368)	14.6 (37.1)	7.3 (18.5)
98 to 108	9	12	0.78 (19.8)	278 (413)	15.6 (39.6)	7.8 (19.8)
110 to 120	10	12	0.80 (20.3)	294 (438)	16.0 (40.6)	8.0 (20.3)
122 to 132	11	12	0.83 (21.1)	317 (472)	16.6 (42.2)	8.3 (21.1)
134 to 144	12	12	0.87 (22.1)	343 (510)	17.4 (44.2)	8.7 (22.1)
146 to 216	12 / 6	12	0.90 (22.9)	347 (517)	18.0 (45.7)	9.0 (22.9)
218 to 264	14 / 8	12	0.96 (24.4)	392 (583)	19.2 (48.8)	9.6 (24.4)
266 to 288	15 / 9	12	1.00 (25.4)	424 (631)	20.0 (50.8)	10.0 (25.4)

ezLINK™ Transit Corrugated Steel Tape Armor with Single LSZH Jacket, DDLSZHE Series | OFCG-LS / FT4 ST1

Fiber Count	# Buffer Tubes Outer/Inner Layer	Fibers Per Unit or # of Units	Diameter inches (mm)	Cable Weight lb/kft (kg/km)	Bend RadiusLoad inches (cm)	Bend Radius No Load inches (cm)
2 to 60	5	12	0.63 (16.0)	192 (285)	12.6 (32.0)	6.3 (16.0)
62 to 72	6	12	0.66 (16.8)	206 (306)	13.2 (33.5)	6.6 (16.8)
74 to 84	7	12	0.70 (17.8)	229 (341)	14.0 (35.6)	7.0 (17.8)
86 to 96	8	12	0.73 (18.5)	247 (368)	14.6 (37.1)	7.3 (18.5)
98 to 108	9	12	0.78 (19.8)	278 (413)	15.6 (39.6)	7.8 (19.8)
110 to 120	10	12	0.80 (20.3)	294 (438)	16.0 (40.6)	8.0 (20.3)
122 to 132	11	12	0.83 (21.1)	317 (472)	16.6 (42.2)	8.3 (21.1)
134 to 144	12	12	0.87 (22.1)	343 (510)	17.4 (44.2)	8.7 (22.1)
146 to 216	12 / 6	12	0.90 (22.9)	347 (517)	18.0 (45.7)	9.0 (22.9)
218 to 264	14 / 8	12	0.96 (24.4)	392 (583)	19.2 (48.8)	9.6 (24.4)
266 to 288	15 / 9	12	1.00 (25.4)	424 (631)	20.0 (50.8)	10.0 (25.4)

ezLINK™ Transit Aluminum Interlock Armor with Double LSZH Jacket, DDLSZHBAJ Series | OFCG-LS / FT4 ST1

Fiber Count	# Buffer Tubes Outer/Inner Layer	Fibers Per Unit or # of Units	Diameter inches (mm)	Cable Weight lb/kft (kg/km)	Bend RadiusLoad inches (cm)	Bend Radius No Load inches (cm)
2 to 60	5	12	0.77 (19.6)	200 (297)	15.4 (39.1)	7.7 (19.6)
62 to 72	6	12	0.80 (20.3)	212 (316)	16.0 (40.6)	8.0 (20.3)
74 to 84	7	12	0.80 (20.3)	242 (360)	16.0 (40.6)	8.0 (20.3)
86 to 96	8	12	0.83 (21.1)	263 (391)	16.6 (42.2)	8.3 (21.1)
98 to 108	9	12	0.90 (22.9)	323 (481)	18.0 (45.7)	9.0 (22.9)
110 to 120	10	12	0.92 (23.4)	341 (507)	18.4 (46.7)	9.2 (23.4)
122 to 132	11	12	0.95 (24.1)	368 (547)	19.0(48.3)	9.5 (24.1)
134 to 144	12	12	1.00 (25.4)	399 (594)	19.8 (50.3)	9.9 (25.1)
146 to 216	12 / 6	12	1.02 (25.9)	405 (602)	20.4 (51.8)	10.2 (25.9)
218 to 264	14 / 8	12	1.08 (27.4)	455 (677)	21.6 (54.9)	10.8 (27.4)
266 to 288	15 / 9	12	1.12 (28.4)	492 (732)	22.4 (56.9)	11.2 (28.4)

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.

Mechanical Specifications

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

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)

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Low-smoke zero-halogen cables with gel-free buffer tubes

Ordering Guide The 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: **Loose tube | indoor/outdoor | riser | gel-free buffer tubes | LSZH single jacket | 12 62.5/125 multimode fibers per buffer tube 48 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	DDLSZHB	BLANK	12	G6	048	M2

CABLE INFORMATION

1 LENGTH MARKINGS

F = Feet or M = Meters

2 PRODUCT FAMILY

Indoor /Outdoor LSZH With Gel-Free Buffer Tubes
DDLSZHB = I/O LSZH All-dielectric (single jacket) LT, OFNG-LS
DDLSZHC = I/O LSZH All-dielectric (double jacket) LT, OFNR-LS
DDLSZHD = I/O LSZH Armored (double jacket) LT, OFCR-LS
DDLSZHE = I/O LSZH Armored (single jacket) LT, OFCG-LS
DDLSZHBAJ = ezINTERLOCK I/O LSZH Interlock Armor LT, OFCG-LS

3 INTERLOCK CONSTRUCTION

(blank) = none

AJ = Jacketed Aluminum

SJ = Jacketed Steel

4 FIBER GROUPING

12 = 12f per tube or unit

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)

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/___
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/___

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, ES, or CE
E3 = 0.35/0.35/0.25	1310/1383/1550	HB, ES, CE, 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 (50µm)

Other cable constructions and fiber performance grades available on request.

Outer Jacket Color For Interlock Armor

Cable Type	Standard Jacket Color
Single-Mode Premises	Yellow
Standard Multimode Premises	Orange
Laser-Optimized 50 µm Premises	Aqua

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