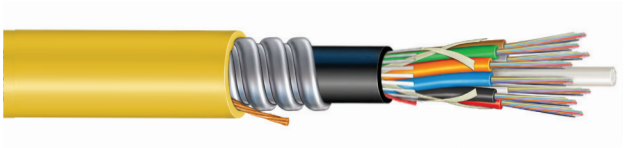
Prysmian Group

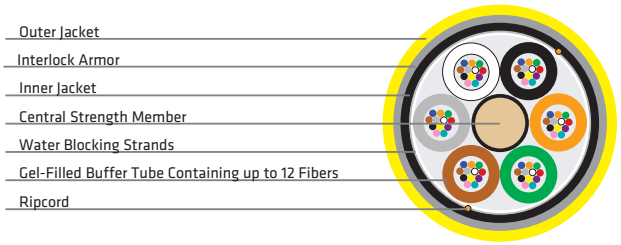
PRYSMIAN

Draka

ezINTERLOCK™ | Indoor/Outdoor Loose Tube

Riser and plenum rated cables





Incorporation of a formed, metallic armor outer layer enhances Prysmian's popular indoor-outdoor loose tube cables to enable superior crush resistance while ensuring maximum flexibility.

Overview

Prysmian's ezINTERLOCK™ loose tube cable family packages up to 288 color coded optical fibers into a single flame retardant cable. This cable design is available in both riser rated and plenum rated versions to fulfill fire code requirements. The loose tube cable design provides excellent mechanical and environmental protection for deployment in a variety of applications.

Product Snapshot

Applications	Flame-rated and crush-resistant loose tube cable designs provide unsurpassed performance for applications requiring premium mechanical protection to cross floors in multi-level buildings or for placement in air handling spaces.
Constructions	Standard LT cable designs with jacketed interlock armor
Flame Ratings	Riser (OFCR / FT4); Plenum (OFCP / FT6)
Fiber Count	2 to 288 (Riser) / 2 to 144 (Plenum)
Fiber Types	Single-mode (ESMF, bend-insensitive) multimode (62.5/125-OM1, 50/125-OM2+, OM3 & OM4)
Standards	ANSI/ICEA S-83-596, UL-1666, NFPA-262, CSA C22.2 No 230, Telcordia GR-409, RoHS Compliant

Features and Benefits

- ezINTERLOCK eliminates the need for conduit and supports one-step installation
- 7x improvement in crush resistance over unarmored products
- Dry buffer tubes simplifies access and reduces prep time
- Industry standard color coding for quick, error-free fiber identification
- Flexible kink-resistant buffer tubes for routing and storage
- Available with bend-insensitive single-mode and multimode optical fibers
- Flexible, flame-retardant & color coded outer jacket
- Supports all high performance networks including OM4/10 gigabit ethernet systems

RoHS COMPLIANT

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500B DS048 EZINTERLOCK INDOOR OUTDOOR LT 12-14

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Gel-Filled Buffer Tubes

ezINTERLOCK Indoor-Outdoor Riser | DRLTBAJ Series | OFCR/FT4

Fiber Count	# 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 60	5	12	0.73 (18.4)	204 (303)	14.6 (36.9)	7.3 (18.5)
62 to 72	6	12	0.76 (19.2)	219 (326)	15.2 (38.4)	7.6 (19.2)
74 to 84	7	12	0.80 (20.4)	248 (369)	16.1 (40.8)	8.1 (20.4)
86 to 96	8	12	0.83 (21.2)	269 (401)	16.7 (42.4)	8.4 (21.2)
98 to 108	9	12	0.88 (22.3)	331 (493)	17.6 (44.6)	8.8 (22.3)
110 to 120	10	12	0.90 (22.8)	349 (519)	18.0 (45.8)	9.0 (22.9)
122 to 132	11	12	0.94 (23.7)	378 (562)	18.7 (47.5)	9.4 (23.8)
134 to 144	12	12	0.97 (24.7)	410 (610)	19.5 (49.5)	9.8 (24.8)

Dry Buffer Tubes

ezINTERLOCK Indoor-Outdoor Riser | DRLDBAJ Series | OFCR/FT4

Fiber Count	# 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 60	5	12	0.73 (18.4)	200 (297)	14.6 (36.9)	7.3 (18.5)
62 to 72	6	12	0.76 (19.2)	214 (319)	15.2 (38.4)	7.6 (19.2)
74 to 84	7	12	0.80 (20.4)	242 (360)	16.1 (40.8)	8.1 (20.4)
86 to 96	8	12	0.83 (21.2)	263 (391)	16.7 (42.4)	8.4 (21.2)
98 to 108	9	12	0.88 (22.3)	323 (481)	17.6 (44.6)	8.8 (22.3)
110 to 120	10	12	0.90 (22.8)	341 (507)	18.0 (45.8)	9.0 (22.9)
122 to 132	11	12	0.94 (23.7)	368 (547)	18.7 (47.5)	9.4 (23.8)
134 to 144	12	12	0.97 (24.7)	399 (594)	19.5 (49.5)	9.8 (24.8)
146 to 216	12 / 6	12	1.00 (25.4)	405 (602)	20.1 (50.9)	10.1 (25.5)
218 to 264	14 / 8	12	1.06 (27.0)	455 (677)	21.3 (54.1)	10.7 (27.1)
266 to 288	15 / 9	12	1.11 (28.1)	492 (732)	22.2 (56.3)	11.1 (28.2)

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.

Outer Jacket Colors

Orange: Multimode OM1 and OM2+
Aqua: Multimode OM3 and OM4
Yellow: Single-mode
Black: Hybrid

Riser & Plenum Mechanical Specifications

Maximum installation load: 600 lbf (2670 N)
Maximum operation load: 180 lbf (801 N)

Temperature Range

Shipping and Storage:	(Riser)	-58° F to +158° F	(-50° C to +70° C)
	(Plenum)	-40° F to +158° F	(-40° C to +70° C)
Installation:	(Riser)	+14° F to +140° F	(-10° C to +60° C)
	(Plenum)	+32° F to +140° F	(0° C to +60° C)
Operation:	(Riser)	-58° F to +158° F	(-50° C to +70° C)
	(Plenum)	-40° F to +158° F	(-40° C to +70° C)

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ezINTERLOCK Indoor-Outdoor Plenum (Single Jacket -Loose Tube Dry) | DPLDBAJ Series | OFCP/FT6

Fiber Count	# 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 60	5	12	0.65 (16.4)	147 (219)	12.9 (32.8)	6.5 (16.4)
62 to 72	6	12	0.68 (17.3)	166 (247)	13.6 (34.6)	6.8 (17.3)
74 to 84	7	12	0.72 (18.2)	188 (279)	14.4 (36.4)	7.2 (18.2)
86 to 96	8	12	0.76 (19.3)	214 (319)	15.2 (38.6)	7.6 (19.3)
98 to 144	12/6	12	0.89 (22.7)	320 (476)	17.9 (45.4)	8.9 (22.7)

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.

Outer Jacket Colors

Orange: Multimode OM1 and OM2+
Aqua: Multimode OM3 and OM4
Yellow: Single-mode
Black: Hybrid

Riser & Plenum Mechanical Specifications

Maximum installation load: 600 lbf (2670 N)
Maximum operation load: 180 lbf (801 N)

Temperature Range

Shipping and Storage:	(Riser)	-58° F to +158° F	(-50° C to +70° C)
	(Plenum)	-40° F to +158° F	(-40° C to +70° C)
Installation:	(Riser)	+14° F to +140° F	(-10° C to +60° C)
	(Plenum)	+32° F to +140° F	(0° C to +60° C)
Operation:	(Riser)	-58° F to +158° F	(-50° C to +70° C)
	(Plenum)	-40° F to +158° F	(-40° C to +70° C)

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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: ezINTERLOCK loose tube | indoor-outdoor riser with gel-filled buffer tubes | standard single jacket cable with aluminum interlock armor and jacket over armor |12 62.5/125 multimode fibers per buffer tube | 48 fiber 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	– DRLTB	AJ	– 12	– G6	– 048	– M2

PART NUMBER CONSTRUCTION

1 LENGTH MARKINGS

F = Feet or M = Meters

2 PRODUCT FAMILY

ezINTERLOCK Gel-Tube | Riser | OFCR/FT4 (2 to 144 fbers)

DRLTBAJ = ezINTERLOCK I/O Riser with Aluminum Interlock Armor

ezINTERLOCK Dry Tube | Riser | OFCR/FT4 (2 to 288 fibers)

DRLDBAJ = ezINTERLOCK I/O Riser with Aluminum Interlock Armor

ezINTERLOCK Dry Tube | Plenum | OFCP/FT6 (2 to 144 fibers)

DPLDBAJ = ezINTERLOCK I/O Plenum with Aluminum Interlock Armor

3 CONSTRUCTION

AJ = Jacketed Aluminum

SJ = Jacketed Steel

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

6 FIBER COUNT

002 to 288 fibers (gel-filled designs only up to 144f)

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 = 850/1300	3.5/1.0	OM1 (62.5µm)
M3 = 850/1300	3.0/1.0	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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