Prysmian Group

PRYSMIAN
Draka

ezLINK™ | Indoor-Outdoor Harsh Environment Loose Tube HD (Heavy Duty)

Petrochemical | Utility | Waste Water | Industrial Tray Cables

Prysmian's "HD" Harsh Environment cable will assure long term reliability of up to 288 fibers in the most challenging applications

Overview

The double jacket construction offers premium mechanical protection from tensile and compression forces. The jacket material is formulated specifically to protect the fibers from a variety of chemicals/solvents and makes this cable ideal for severe outdoor conditions posed by aviation operations, industrial complexes, and waste water management. This HD cable is extremely versatile, may be utilized in low temperature applications down to -50°C (-58°F) and/or in properly engineered self-supported aerial applications.

Product Snapshot

Applications	Extremely rugged indoor-outdoor cable providing unsurpassed performance in the most challenging applications where extreme tensile, crush, or temperature exposure are present
Flame Rating	General Purpose OFNG / FT4
Fiber Count	2 to 288
Fiber Types	Single-Mode (ESMF, Bend-Insensitive) Multimode (62.5/125-OM1, 50/125-OM2+, OM3 & OM4)
Performance	ANSI/ICEA S-104-696, CSA C22.2 No 230, UL-1685, Telcordia GR-20, RoHS Compliant

Features and Benefits

- Proven stranded loose tube cable design for long term reliability
- Flame-retardant, chemical resistant, black UV-resistant outer jacket
- Hydrocarbon kerosene, gasoline & lubricating oil resistant
- Suitable for tray installations per NFPA 70
- Resistant to jet fuel and de-icing chemicals for airport applications
- Cable core utilizing dry-waterblock technology to improve handleability
- Available with bend-insensitive single-mode and multimode optical fibers
- Smaller & lighter than comparable metallic armored designs
- Self-supported aerial applications without using a dedicated messenger strand

Chemical Resistance Performance

Compound	**Test Criteria**
ASTM No. 2 Oil	96 hours at 100° C
Kerosene	168 hours at 50° C
MIL-T-5624N JP-4 (jet fuel)	168 hours at 50° C
MIL-H-5606 Hydraulic Fluid	168 hours at 50° C
Vegetation Killer	168 hours at 50° C
De-Icing Fluid	24 hours at 50° C
Hydrogen Sulfide (H2S)	24 hours at 100° C

RoHS COMPLIANT

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500D DS030 EZLINK INDOOR OUTDOOR LT (HD) HARSH ENVIRO 07-14

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ezLINK™ Indoor-Outdoor HD Harsh Environment | DWWC Series | OFNG/FT4

Fiber Count	Number of Buffer Tubes	Fibers Per Unit	Diameter Inches (mm)	Cable Weight lb/kft (kg/km)	Bend Radius UNDER LOAD Inches (cm)	Bend Radius NO LOAD Inches (cm)
2 to 72	6	12	0.60 (15.3)	159 (237)	12.0 (30.5)	6.0 (15.3)
74 to 84	7	12	0.64 (16.2)	176 (262)	12.8 (32.6)	6.4 (16.3)
86 to 96	8	12	0.67 (17.1)	198 (294)	13.4 (34.1)	6.7 (17.1)
98 to 108	9	12	0.71 (17.9)	216 (322)	14.2 (36.1)	7.1 (18.1)
110 to 120	10	12	0.74 (18.8)	238 (354)	14.8 (37.6)	7.4 (18.4)
122 to 132	11	12	0.78 (19.7)	260 (387)	15.6 (39.7)	7.8 (19.9)
134 to 144	12	12	0.83 (21.0)	294 (438)	16.6 (42.2)	8.3 (21.1)
146 to 216	12 / 6	12	0.81 (20.5)	267 (398)	16.2 (41.2)	8.1 (20.6)
218 to 264	14 / 8	12	0.90 (22.8)	333 (496)	18.0 (45.8)	9.0 (22.9)
266 to 288	15 / 9	12	0.93 (23.7)	358 (532)	18.6 (47.3)	9.3 (23.7)

Mechanical Specifications

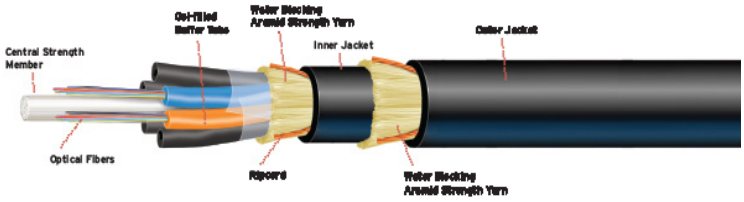
Maximum installation load: 1000 lbf (4450 N)
Maximum operation load: 300 lbf (1330 N)
Crush resistance: 4500 N
Impact force resistance: 11.8 N*M
Cold impact load: 5.88 N*M at -22° F (-30° C)

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)

	NESC Light 1.5% Initial Sag			CSA Medium A 1.5% Initial Sag			CSA Heavy A 1.5% Initial Sag			PLP Attachment Hardware Part Numbers	
Fiber Count	Span (m)	Weather Load MRCL (N)	Installation Tension (N)	Span (m)	Weather Load MRCL (N)	Installation Tension (N)	Span (m)	Weather Load MRCL (N)	Installation Tension (N)	Dead End	Aluminum Support
2 - 72	130	4026	2514	87	4026	1700	62	4026	1215	2872007C1E1	4450102
74 to 84	120	4026	2585	83	4026	1771	60	4026	1281	2872008C1E1	4450103
86 to 96	133	4827	3194	93	4827	2247	68	4827	1646	2872009C1E1	4450103
98 to 108	123	4827	3257	88	4827	2331	66	4827	1726	2872010C1E1	4450104
110 to 120	115	4827	3332	83	4827	2411	62	4827	1811	2872011C1E1	4450104
122 to 132	107	4827	3390	79	4827	2491	60	4827	1895	2872011C1E1	4450105
134 to 144	97	4827	3479	73	4827	2603	56	4827	2011	2872012C1E1	4450106
146 to 216	87	4026	2821	64	4026	2087	49	4026	1588	2872012C1E1	4450105
218 to 264	87	4827	3541	66	4827	2687	52	4827	2118	2872014C1E1	4450106
266 to 288	82	4827	3586	63	4827	2749	50	4827	2180	2872014C1E1	4450107

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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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: ezLINK™ Indoor-Outdoor Loose Tube | Harsh Environment HD, Dielectric (double Jacket) | General Purpose rated | 12 fibers per buffer tube 48 62.5/125 multimode 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	DWWC	BLANK	12	G6	048	M2

CABLE INFORMATION

1 LENGTH MARKINGS

F = Feet or M = Meters

2 PRODUCT FAMILY

For General Purpose | FT4

DWWC = 2 to 288f | ezLINK™ Indoor-Outdoor LT HD All-dielectric (double jacket)

Flame Rating: OFNG/FT4

3 CONSTRUCTION

(blank) = Not available with interlock armor

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+ 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, or CE
E3 = 0.35/0.35/0.25	1310/1383/1550	Bend-Insensitive Single-Mode
E3 = 0.35/0.35/0.25	1310/1383/1550	Bend-Insensitive Single-Mode

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.

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