Prysmian Group

PRYSMIAN
Draka
General Cable

ExpressLT™ Dry

Dry loose tube cable (2.5 mm)

A versatile, multi-purpose fiber cable designed for ease of use and buffer tube mid-span storage applications

Overview

Prysmian's popular ExpressLT™ cable combines buffer tubes with enhanced flexibility, a completely dry water-blocking system, and optional ezPREP® armor. The buffer tubes are also rated for mid-span storage applications. This combination of features makes ExpressLT™ an ideal solution for applications requiring frequent sheath access and express tube storage.

Product Snapshot

Applications	Multi-purpose outdoor, aerial lashed, duct, direct buried (when armored)
Constructions	Dielectric, armored, double armored, dual jacket
Count	4 to 432 fibers in color-coded buffer tubes
Fiber Types	Single-mode, multimode, bend-insensitive SM, NZDS
Options	Steel central member, 22 or 24 AWG copper pair(s), 16 AWG tonewire, striped Jacket, factory-installed pulling eye
Similar Alternatives	Gel-filled buffer tubes / LT 2.0 / heavy duty / central / indoor-outdoor / indoor / self-support / microduct
Performance	Tested in accordance with TIA 455 series FOTPs for fiber optic cables. Complies with ICEA 640, RUS 7 CFR 1755 (PE90 listed), Telcordia GR-20, and IEC 60794-3-11
Registered Supplier	ISO 9001, ISO 14001, TL 9000, and OHSAS 18001

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Features and Benefits

Easy Cable Entry and Preparation

- Dry water-blocked core speeds cable access
- Dry water-blocked tubes reduce prep time by an average of 15 minutes per cable end
- Available with ezPREP® armor to allow easy access to the core in mid-sheath entries
- Reverse oscillating stranded core facilitates mid-span access of fibers. Tubes can easily be removed from the core
- Ripcord speeds cable entry & outer jacket removal

Available with ezPREP® Armor

- The jacket can be easily separated from the armor without a heat gun or torch
- Armored cable access, bonding and grounding are faster, easier and safer

Flexible Routing and Termination

- Buffer tubes can be stored in FTTx pedestals, closures and cabinets in lengths up to 20'
- 2.5 mm buffer tubes with enhanced flexibility simplify routing and splice preparation

Multi-Purpose Design

- Suitable for aerial lashed, duct, and direct buried installation (when armored)
- Small diameter and light weight, extends reel and installation lengths
- Optional ezPREP® corrugated steel tape armor provides mechanical protection and rodent resistance

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Dielectric (Non-Armored) (EDH1JKT)

Fiber Count	# of Buffer Tubes	Diameter Inches (mm)	Approx. Cable Weight lb/kft (kg/km)	Bend Radius | Load Inches (cm)	Bend Radius | No Load inches (cm)	Max. Reel Length feet (meters)
4 to 60	5	0.40 (10.1)	43 (64)	8 (20)	4 (10)	41,010 (12,500)
62 to 72	6	0.43 (10.9)	50 (75)	8 (22)	4 (11)	41,010 (12,500)
74 to 96	8	0.50 (12.6)	65 (97)	10 (25)	5 (13)	41,010 (12,500)
98 to 120	10	0.55 (14.1)	81 (121)	11 (28)	6 (14)	41,010 (12,500)
122 to 144	12	0.63 (15.9)	105 (156)	13 (32)	6 (16)	41,010 (12,500)
146 to 216	18	0.63 (15.9)	105 (156)	13 (32)	6 (16)	41,010 (12,500)
228 to 264	22	0.68 (17.3)	128 (190)	14 (35)	7 (17)	41,010 (12,500)
276 to 288	24	0.74 (18.8)	145 (216)	14 (37)	7 (18)	39,820 (12,139)
290 to 432	36	0.80 (20.4)	154 (229)	16 (41)	8 (21)	31,095 (9,479)

Single Jacket Armored (SP) (EDH1A1J)

Fiber Count	# of Buffer Tubes	Diameter Inches (mm)	Approx. Cable Weight lb/kft (kg/km)	Bend Radius | Load Inches (cm)	Bend Radius | No Load inches (cm)	Max. Reel Length feet (meters)
4 to 60	5	0.46 (11.8)	89 (132)	9 (24)	5 (12)	41,010 (12,500)
62 to 72	6	0.50 (12.6)	97 (145)	10 (25)	5 (13)	41,010 (12,500)
74 to 96	8	0.56 (14.3)	125 (186)	11 (29)	6 (14)	41,010 (12,500)
98 to 120	10	0.63 (15.9)	148 (220)	12 (32)	6 (16)	41,010 (12,500)
122 to 144	12	0.69 (17.6)	176 (262)	14 (35)	7 (18)	41,010 (12,500)
146 to 216	18	0.70 (17.9)	176 (262)	14 (36)	7 (18)	41,010 (12,500)
228 to 264	22	0.76 (19.4)	196 (291)	15 (39)	8 (19)	35,306 (10,762)
276 to 288	24	0.81 (20.7)	214 (319)	16 (42)	8 (21)	29,386 (8,958)
290 to 432	36	0.90 (23.0)	230 (342)	18 (46)	9 (23)	24,054 (7,332)

Double Jacket Single Armored (PSP) (EDH1A2J)

Fiber Count	# of Buffer Tubes	Diameter Inches (mm)	Approx. Cable Weight lb/kft (kg/km)	Bend Radius | Load Inches (cm)	Bend Radius | No Load inches (cm)	Max. Reel Length feet (meters)
4 to 60	5	0.53 (13.5)	107 (160)	11 (27)	5 (14)	41,010 (12,500)
62 to 72	6	0.55 (14.0)	122 (181)	11 (28)	5 (14)	41,010 (12,500)
74 to 96	8	0.61 (15.5)	137 (204)	12 (31)	6 (16)	41,010 (12,500)
98 to 120	10	0.67 (17.1)	167 (249)	13 (34)	7 (17)	41,010 (12,500)
122 to 144	12	0.74 (18.9)	198 (294)	15 (38)	7 (19)	35,816 (10,918)
146 to 216	18	0.76 (19.2)	198 (294)	15 (38)	8 (19)	35,688 (10,879)
228 to 264	22	0.80 (20.4)	220 (327)	16 (41)	8 (20)	31,446 (9,586)
276 to 288	24	0.86 (21.8)	239 (356)	17 (44)	9 (22)	29,088 (8,867)
290 to 432	36	0.94 (24.0)	257 (382)	19 (48)	9 (24)	22,400 (6,828)

Installation

Maximum installation load: 600 lbf (2700 N)
Maximum operation load: 180 lbf (800 N)

Temperature Range

Shipping and Storage: -40° F to +167° F (-40° C to +75° C)
Installation: -22° F to +140° F (-30° C to +60° C)
Operation: -40° F to +158° F (-40° C to +70° C)

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Dielectric Double Jacket (PDP) (EDHNA2J)

Fiber Count	# of Buffer Tubes	Diameter Inches (mm)	Approx. Cable Weight lb/kft (kg/km)	Bend Radius | Load Inches (cm)	Bend Radius | No Load inches (cm)	Max. Reel Length feet (meters)
4 to 60	5	0.46 (11.7)	63 (96)	9 (23)	5 (12)	41,010 (12,500)
62 to 72	6	0.48 (12.2)	73 (108)	10 (25)	5 (12)	41,010 (12,500)
74 to 96	8	0.54 (13.8)	89 (133)	11 (28)	5 (14)	41,010 (12,500)
98 to 120	10	0.61 (15.4)	111 (165)	12 (31)	6 (15)	41,010 (12,500)
122 to 144	12	0.67 (17.1)	133 (198)	13 (34)	7 (17)	41,010 (12,500)
146 to 216	18	0.67 (17.1)	137 (204)	13 (34)	7 (17)	41,010 (12,500)
218 to 264	22	0.74 (18.7)	159 (237)	15 (37)	7 (19)	36,138 (11,016)
266 to 288	24	0.78 (19.8)	179 (266)	16 (40)	8 (20)	33,220 (10,126)

Double Jacket Double Armored (SPSP) (EDH2A2J)

Fiber Count	# of Buffer Tubes	Diameter Inches (mm)	Approx. Cable Weight lb/kft (kg/km)	Bend Radius | Load Inches (cm)	Bend Radius | No Load inches (cm)	Max. Reel Length feet (meters)
4 to 60	5	0.64 (16.3)	182 (272)	13 (33)	6 (16)	41,010 (12,500)
62 to 72	6	0.67 (17.1)	194 (289)	13 (34)	7 (17)	41,010 (12,500)
74 to 96	8	0.75 (19.1)	226 (336)	15 (38)	8 (19)	35,306 (10,762)
98 to 120	10	0.80 (20.4)	258 (384)	16 (41)	8 (20)	31,096 (9,479)
122 to 144	12	0.88 (22.4)	312 (465)	18 (45)	9 (22)	25,630 (7,813)
146 to 216	18	0.88 (22.4)	305 (454)	18 (45)	9 (22)	25,630 (7,813)
218 to 264	22	0.94 (23.9)	338 (503)	19 (48)	9 (24)	22,400 (6,828)
266 to 288	24	0.98 (24.9)	368 (547)	20 (50)	10 (25)	20,282 (6,182)

Triple Jacket Double Armored (PSPSP) (EDH2A3J)

Fiber Count	# of Buffer Tubes	Diameter Inches (mm)	Approx. Cable Weight lb/kft (kg/km)	Bend Radius | Load Inches (cm)	Bend Radius | No Load inches (cm)	Max. Reel Length feet (meters)
4 to 60	5	0.70 (17.8)	215 (320)	14 (36)	7 (18)	40,248 (12,268)
62 to 72	6	0.73 (18.6)	228 (339)	15 (37)	7 (19)	35,654 (10,868)
74 to 96	8	0.78 (19.9)	265 (394)	16 (40)	8 (20)	31,852 (9,709)
98 to 120	10	0.86 (21.9)	313 (466)	17 (43)	9 (22)	27,160 (8,279)
122 to 144	12	0.93 (23.7)	367 (546)	19 (47)	9 (24)	22,330 (6,807)
146 to 216	18	0.93 (23.7)	367 (546)	19 (47)	9 (24)	22,330 (6,807)
218 to 264	22	0.98 (25.0)	402 (598)	20 (50)	10 (25)	20,312 (6,192)
266 to 288	24	1.02 (26.0)	429 (639)	20 (52)	10 (26)	18,680 (5,694)

Installation

Maximum installation load: 600 lbf (2700 N)
Maximum operation load: 180 lbf (800 N)

Temperature Range

Shipping and Storage:	-40° F to +167° F	(-40° C to +75° C)
Installation:	-22° F to +140° F	(-30° C to +60° C)
Operation:	-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: ExpressLT™ dry (gel-free) | single armor single jacket (12 fibers/tube) with 72 single-mode fibers (printed in feet)

1 LENGTH MARKINGS		2 PRODUCT FAMILY		3 CONSTRUCTION		4 FIBER GROUPING		5 FIBER TYPE		6 FIBER COUNT		7 FIBER GRADE
F	-	EDH	-	1A1J	-	12	-	HB	-	072	-	E3

PART NUMBER CONSTRUCTION

1 LENGTH MARKINGS

F = Feet or M = Meters

2 PRODUCT FAMILY

EDH = ExpressLT™ Dry

3 CONSTRUCTION

1JKT = Single Jacket
1A1J = Single Armor, Single Jacket
1A2J = Single Armor, Dual Jacket
2A2J = Double Armor, Dual Jacket
2A3J = Double Armor, Triple Jacket
NA2J = Non Armored, Dual Jacket

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)
CE = Corning™ SMF28e+ Single-Mode
B1 = Bend-Insensitive Single-Mode (ITU G.657.A1 & G.652.D)
BU = Bend-Insensitive Single-Mode (ITU G.657.A1+ & G.652.D)
DU = BendBright+ Single-Mode (ITU G.657.A1+ & G.652.D)
B2 = Bend-Insensitive Single-Mode (ITU G.657.A2 & .B2, & G.652.D)
LE = LEAF NZDSF (ITU G.655)

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

004 to 432 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, BU, DU, or B2
N1 = 0.25	1550	LE

MULTIMODE Attenuation (dB/km)	Wavelength (nm)
M2 = 3.5/1.0	850/1300
M3 = 3.0/1.0	850/1300

Other cable constructions and fiber performance grades available on request.

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