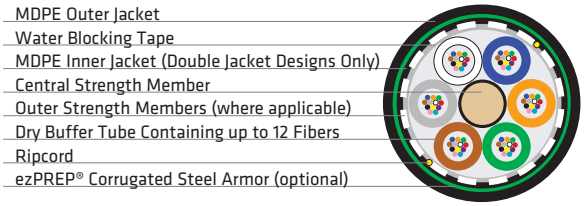
Prysmian Group

PRYSMIAN Draka

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

RUS LISTED

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)	Approximate Cable Weight lb/kft (kg/km)	Bend Radius | Load Inches (cm)	Bend Radius | No Load inches (cm)
4 to 60	5	0.40 (10.1)	43 (64)	8 (20)	4 (10)
62 to 72	6	0.43 (10.9)	50 (75)	8 (22)	4 (11)
74 to 96	8	0.50 (12.6)	65 (97)	10 (25)	5 (13)
98 to 120	10	0.55 (14.1)	81 (121)	11 (28)	6 (14)
122 to 144	12	0.63 (15.9)	105 (156)	13 (32)	6 (16)
146 to 216	18	0.63 (15.9)	105 (156)	13 (32)	6 (16)
228 to 264	22	0.68 (17.3)	128 (190)	14 (35)	7 (17)
276 to 288	24	0.72 (18.3)	145 (216)	14 (37)	7 (18)
290 to 432	36	0.80 (20.4)	154 (229)	16 (41)	8 (21)

Single Jacket Armored (SP) (EDH1A1J)

Fiber Count	# of Buffer Tubes	Diameter Inches (mm)	Approximate Cable Weight lb/kft (kg/km)	Bend Radius | Load Inches (cm)	Bend Radius | No Load inches (cm)
4 to 60	5	0.46 (11.8)	89 (132)	9 (24)	5 (12)
62 to 72	6	0.50 (12.6)	97 (145)	10 (25)	5 (13)
74 to 96	8	0.56 (14.3)	125 (186)	11 (29)	6 (14)
98 to 120	10	0.62 (15.8)	148 (220)	12 (32)	6 (16)
122 to 144	12	0.69 (17.6)	176 (262)	14 (35)	7 (18)
146 to 216	18	0.70 (17.9)	176 (262)	14 (36)	7 (18)
228 to 264	22	0.76 (19.4)	196 (291)	15 (39)	8 (19)
276 to 288	24	0.81 (20.7)	214 (319)	16 (42)	8 (21)
290 to 432	36	0.90 (23.0)	230 (342)	18 (46)	9 (23)

Double Jacket Single Armored (PSP) (EDH1A2J)

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

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)	Approximate Cable Weight lb/kft (kg/km)	Bend Radius | Load Inches (cm)	Bend Radius | No Load inches (cm)
4 to 60	5	0.46 (11.7)	63 (96)	9 (23)	5 (12)
62 to 72	6	0.48 (12.2)	73 (108)	10 (25)	5 (12)
74 to 96	8	0.54 (13.8)	89 (133)	11 (28)	5 (14)
98 to 120	10	0.61 (15.4)	111 (165)	12 (31)	6 (15)
122 to 144	12	0.67 (17.1)	133 (198)	13 (34)	7 (17)
146 to 216	18	0.67 (17.1)	137 (204)	13 (34)	7 (17)
218 to 264	22	0.74 (18.7)	159 (237)	15 (37)	7 (19)
266 to 288	24	0.78 (19.8)	179 (266)	16 (40)	8 (20)

Double Jacket Double Armored (SPSP) (EDH2A2J)

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

Triple Jacket Double Armored (PSPSP) (EDH2A3J)

Fiber Count	# of Buffer Tubes	Diameter Inches (mm)	Approximate Cable Weight lb/kft (kg/km)	Bend Radius | Load Inches (cm)	Bend Radius | No Load inches (cm)
4 to 60	5	0.70 (17.8)	215 (320)	14 (36)	7 (18)
62 to 72	6	0.73 (18.6)	228 (339)	15 (37)	7 (19)
74 to 96	8	0.78 (19.9)	265 (394)	16 (40)	8 (20)
98 to 120	10	0.86 (21.9)	313 (466)	17 (43)	9 (22)
122 to 144	12	0.93 (23.7)	367 (546)	19 (47)	9 (24)
146 to 216	18	0.93 (23.7)	367 (546)	19 (47)	9 (24)
218 to 264	22	0.98 (25.0)	402 (598)	20 (50)	10 (25)
266 to 288	24	1.02 (26.0)	429 (639)	20 (52)	10 (26)

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)
B2 = Bend-Insensitive Single-Mode (ITU G.657.A2 & .B2, & G.652.D)
TU = TeraLight Ultra Single-Mode (ITU G.655 & G.656)
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, or B2
NA = 0.40/0.25	1310/1550	TeraLight Ultra Single-Mode
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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