

ExpressLT™

Gel-Filled Loose Tube Cable (2.5mm)



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 gel-filled buffer tubes with enhanced flexibility, a dry water-blocked core, 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-free 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 ICEA640, RUS 7 CFR 1755 (PE90 listed), Telcordia GR-20, and IEC 60794-3-11

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Features and Benefits

Easy Cable Entry and Preparation

- Dry water-blocked core speeds cable access
- 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'
- 2.5mm buffer tubes with enhanced flexibility simplify routing & 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
- Proven water-blocking with swellable core elements and gel-filled buffer tubes
- Optional ezPREP® corrugated steel tape armor provides mechanical protection and rodent resistance

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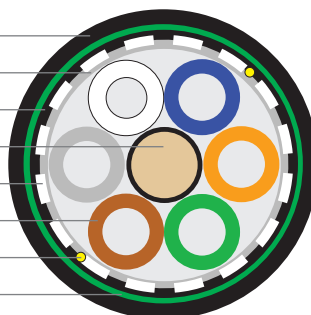
Sales:

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Express® LT

Loose Tube Cable

- Outer Jacket
- Water Blocking Tape
- Inner Jacket (Double Jacket Designs Only)
- Central Strength Member
- Outer Strength Members (where applicable)
- Gel-Filled Buffer Tube Containing up to 12 Fibers
- Ripcord
- ezPREP® Corrugated Steel Armor (optional)



Dielectric (Non-Armored) (ETH1JKT)

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)	46 (69)	8 (20)	4 (10)
62 to 72	6	0.43 (10.9)	55 (81)	8 (22)	4 (11)
74 to 96	8	0.50 (12.6)	71 (105)	10 (25)	5 (13)
98 to 120	10	0.55 (14.1)	88 (131)	11 (28)	6 (14)
122 to 144	12	0.63 (15.9)	117 (174)	13 (32)	6 (16)
146 to 216	18	0.63 (15.9)	120 (179)	13 (32)	6 (16)
218 to 264	22	0.68 (17.3)	143 (212)	14 (35)	7 (17)
266 to 288	24	0.72 (18.3)	162 (240)	14 (37)	7 (18)
290 to 432	36	0.80 (20.4)	210 (313)	16 (41)	8 (21)

Single Jacket Armored (SP) (ETH1A1)

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)	92 (137)	9 (24)	5 (12)
62 to 72	6	0.50 (12.6)	101 (157)	10 (25)	5 (13)
74 to 96	8	0.56 (14.3)	121 (180)	11 (29)	6 (14)
98 to 120	10	0.62 (15.8)	150 (223)	12 (32)	6 (16)
122 to 144	12	0.69 (17.6)	188 (280)	14 (35)	7 (18)
146 to 216	18	0.70 (17.9)	183 (272)	14 (36)	7 (18)
218 to 264	22	0.76 (19.4)	205 (305)	15 (39)	8 (19)
266 to 288	24	0.81 (20.7)	224 (334)	16 (42)	8 (21)
290 to 432	36	0.90 (23.0)	277 (412)	18 (46)	9 (23)

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Loose Tube Cable

Double Jacket Armored (PSP) (ETH1A2)

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)	111 (165)	11 (27)	5 (14)
62 to 72	6	0.55 (14.0)	121 (180)	11 (28)	5 (14)
74 to 96	8	0.61 (15.5)	143 (212)	12 (31)	6 (16)
98 to 120	10	0.67 (17.1)	174 (259)	13 (34)	7 (17)
122 to 144	12	0.74 (18.9)	210 (312)	15 (38)	7 (19)
146 to 216	18	0.76 (19.2)	210 (312)	15 (38)	8 (19)
218 to 264	22	0.80 (20.4)	235 (349)	16 (41)	8 (20)
266 to 288	24	0.86 (21.9)	255 (380)	17 (44)	9 (22)
290 to 432	36	0.94 (24.0)	312 (464)	19 (48)	9 (24)

Dielectric Double Jacket (PDP) (ETHNA2)

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)	68 (101)	9 (23)	5 (12)
62 to 72	6	0.48 (12.2)	78 (116)	10 (25)	5 (12)
74 to 96	8	0.54 (13.8)	97 (144)	11 (28)	5 (14)
98 to 120	10	0.61 (15.4)	121 (180)	12 (31)	6 (15)
122 to 144	12	0.67 (17.1)	145 (216)	13 (34)	7 (17)
146 to 216	18	0.67 (17.1)	154 (228)	13 (34)	7 (17)
218 to 264	22	0.74 (18.7)	179 (266)	15 (37)	7 (19)
266 to 288	24	0.78 (19.8)	200 (298)	16 (40)	8 (20)

Double Jacket Double Armored (SPSP) (ETH2A2)

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)	186 (277)	13 (33)	6 (16)
62 to 72	6	0.67 (17.1)	198 (295)	13 (34)	7 (17)
74 to 96	8	0.75 (19.1)	231 (344)	15 (38)	8 (19)
98 to 120	10	0.80 (20.4)	265 (394)	16 (41)	8 (20)
122 to 144	12	0.88 (22.4)	325 (483)	18 (45)	9 (22)
146 to 216	18	0.88 (22.4)	317 (472)	18 (45)	9 (22)
218 to 264	22	0.94 (23.9)	353 (525)	19 (48)	9 (24)
266 to 288	24	0.98 (24.9)	384 (571)	20 (50)	10 (25)

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Triple Jacket Double Armored (PSPSP) (ETH2A3)

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)	218 (325)	14 (36)	7 (18)
62 to 72	6	0.73 (18.6)	232 (345)	15 (37)	7 (19)
74 to 96	8	0.79 (20.1)	270 (402)	16 (40)	8 (20)
98 to 120	10	0.85 (21.7)	320 (476)	17 (43)	9 (22)
122 to 144	12	0.83 (23.7)	379 (564)	19 (47)	9 (24)
146 to 216	18	0.93 (23.7)	379 (564)	19 (47)	9 (24)
218 to 264	22	0.98 (25.0)	417 (620)	20 (50)	10 (25)
266 to 288	24	1.02 (26.0)	446 (663)	20 (52)	10 (26)

Installation

Maximum installation load: 600 lbf (2670 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)

Buffer Tube Color Code					
Position	Base Color	Position	Base Color with Stripe	Position	Base Color with Stripe
1	Blue	13	Blue with Black Stripe	25	Blue with Red Stripe
2	Orange	14	Orange with Black Stripe	26	Orange with Red Stripe
3	Green	15	Green with Black Stripe	27	Green with Red Stripe
4	Brown	16	Brown with Black Stripe	28	Brown with Red Stripe
5	Slate	17	Slate with Black Stripe	29	Slate with Red Stripe
6	White	18	White with Black Stripe	30	White with Red Stripe
7	Red	19	Red with Black Stripe	31	Red with Yellow Stripe
8	Black	20	Black with Yellow Stripe	32	Black with Red Stripe
9	Yellow	21	Yellow with Black Stripe	33	Yellow with Red Stripe
10	Violet	22	Violet with Black Stripe	34	Violet with Red Stripe
11	Rose	23	Rose with Black Stripe	35	Rose with Red Stripe
12	Aqua	24	Aqua with Black Stripe	36	Aqua with Red Stripe

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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: Express LT Gel-Filled Tubes | Single Armor Single Jacket (12 Fibers/Tube) with 72 ESMF 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	ETH	1A1J	12	ES	072	E1

PART NUMBER CONSTRUCTION	
1 LENGTH MARKINGS	F = Feet or M = Meters
2 PRODUCT FAMILY	ETH = ExpressLT™ Gel-Filled Tubes
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 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				
BB = BendBright Single-Mode (ITU G.657.A1 & G.652.D)				
BX = BendBrightXS Single-Mode (ITU G.657.A2 & .B2, & G.652.D)				
TU = TeraLight Ultra Single-Mode (ITU G.655 & G.656)				
LA = NZDSF-LA Single-Mode (ITU G.655)				
LE = LEAF NZDSF (ITU G.655)				
MULTIMODE	Wavelength (nm)	Bandwidth (MHz)	1 CbE Dist (m)	10 CbE Dist (m)
6S = OM1 (62.5µm)	850/1300	200/500	300/550	33/___
5E = MaxCap-BB-OM2+ (50µm)	850/1300	700/500	800/550	150/___
5F = MaxCap-BB-OM3 (50µm)	850/1300	1500/500	1000/550	300/___
5G = MaxCap-BB-OM4 (50µm)	850/1300	3500/500	1100/550	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, or CE		
E3 = 0.35/0.35/0.25	1310/1383/1550	BendBright Single-Mode		
E3 = 0.35/0.35/0.25	1310/1383/1550	BendBrightXS Single-Mode		
NA = 0.40/0.25	1310/1550	TeraLight Ultra Single-Mode		
N1 = 0.25	1550	NZDSF-LA or LEAF Single-Mode		
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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