

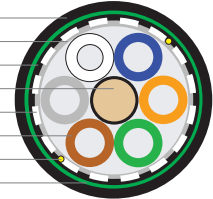


ExpressLT™

Gel-Filled Loose Tube Cable (2.5mm)



- MDPE Outer Jacket
- Water Blocking Tape
- MDPE 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)



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

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

RUS LISTED

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Express® LT

Loose Tube Cable

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)

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)

Express® LT

Loose Tube Cable

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)

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	0.86 (21.9)	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)

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 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	HB	072	E3

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)
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, 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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