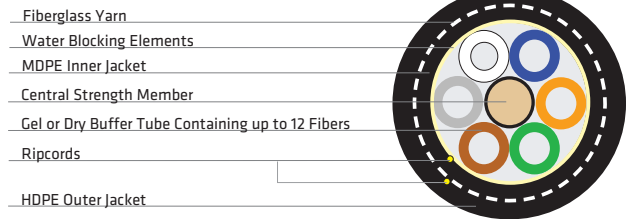




## ExpressLT™ All-Dielectric Armor Cable



*Versatile all-dielectric cable for added robustness and small rodent retardant protection.*

### Overview

Prysmian's all-dielectric armor loose tube cable provides all the benefits of Prysmian's loose tube cable along with enhanced mechanical protection. Multiple layers of fiberglass provide dielectric armoring, superior tensile strength, and small rodent retardant protection.

### Product Snapshot

<b>Applications</b>	Multi-purpose outdoor - aerial lashed, duct, direct buried
<b>Constructions</b>	Gel or dry buffer tubes
<b>Fiber Count</b>	4 to 432 fibers in color-coded buffer tubes
<b>Fiber Types</b>	Single-mode / bend-insensitive / NZDSF / multimode / hybrid
<b>Options</b>	Steel central member / 22 or 24 AWG copper pair(s) / 16 AWG tonewire
<b>Other Versions</b>	Standard loose tube all-dielectric non-armor or metallic armor cable, gel or dry
<b>Performance</b>	ANSI/ICEA640, RUS 7 CFR 1755 (RUS Compliant), Telcordia GR-20
<b>Registered Supplier</b>	ISO 9001, ISO 14001, TL 9000, and OHSAS 18001



### Features and Benefits

#### Enhanced Mechanical Protection

- All-dielectric armor provides enhanced mechanical and from small rodent retardant protection
- 1000 lbf tensile strength – 66% higher strength compared to standard loose tube cable
- Multiple layers of fiberglass armoring between 2 polyethylene jackets maintain cable flexibility and easy cable handling, especially during cable terminations
- Thicker outer jacket of high density polyethylene (HDPE) provide enhanced durability
- Suitable for aerial lashed, duct, and direct buried applications

#### Easy Cable Entry & Termination

- Up to 20 foot mid-span buffer tube storage capability, allowing for easy mid-cable access
- 2.5 mm flexible polypropylene buffer tubes provide flexibility for easy routing in closures up to 432 fibers
- Available with G657.A2 fiber which has a bending loss 100 times lower than single-mode fiber

#### Reliable Lifetime Performance

- Tested for resistance against small rodents
- Guaranteed standards-based performance
- Available with gel or dry buffer tubes
- Proven water-blocking with swellable core elements and gel-filled buffer tubes

## Nominal Design Parameters

### All-Dielectric Armor Loose Tube

Fiber Count	Number of Buffer Tubes	Buffer Tube Diameter (mm)	Buffer Tube Material	Number Fibers Per Tube	Mid-Span Tube Storage Length ft (m)	Diameter inches (mm)	(EDHDA2J)		(ETHDA2J)		Maximum Reel Length ft (m)
							Approximate Cable Weight lb/kft (kg/km)	Approximate Cable Weight lb/kft (kg/km)	Bend Radius Load inches (cm)	Bend Radius No Load inches (cm)	
2 to 60	5	2.5	PP	12	20 (6.1)	0.52 (13.2)	77 (114)	80 (119)	10 (25)	5 (13)	41,010 (12,500)
2 to 72	6	2.5	PP	12	20 (6.1)	0.53 (13.5)	86 (128)	90 (134)	11 (27)	5 (13)	41,010 (12,500)
74 to 96	8	2.5	PP	12	20 (6.1)	0.58 (14.7)	110 (163)	115 (171)	12 (29)	6 (15)	41,010 (12,500)
98 to 120	10	2.5	PP	12	20 (6.1)	0.65 (16.6)	134 (200)	141 (210)	13 (32)	6 (17)	41,010 (12,500)
122 to 144	12	2.5	PP	12	20 (6.1)	0.72 (18.4)	155 (230)	169 (252)	14 (36)	7 (18)	37,994 (11,581)
146 to 216	18	2.5	PP	12	20 (6.1)	0.72 (18.4)	162 (241)	172 (256)	14 (37)	7 (18)	37,994 (11,581)
218 to 288	24	2.5	PP	12	20 (6.1)	0.85 (21.6)	198 (264)	214 (318)	17 (42)	8 (21)	27,510 (8,386)
290 to 432	18	3.0	PBT	24	16 (4.9)	0.81 (20.7)	n/a	200 (298)	16 (41)	8 (21)	29,386 (8,958)

\* PP = polypropylene 24 fiber tube contains two 12 fiber binder groups (blue & orange)

### 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)

### Installation

Maximum installation load: 1000 lbf (4500 N)  
 Maximum operation load: 300 lbf (1333 N)

### 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 loose tube | all-dielectric armor dual jacket, 72 fiber 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	DA2J	12	HB	072	E3

### PART NUMBER CONSTRUCTION

<b>1 LENGTH MARKINGS</b>	F = Feet or M = Meters
<b>2 PRODUCT FAMILY</b>	ETH = ExpressLT™   Gel-filled tube EDH = ExpressLT™   Dry
<b>3 CONSTRUCTION</b>	DA2J = All-Dielectric Armor, Dual Jacket
<b>4 FIBER GROUPING</b>	12 = 12f per unit or tube 24 = 24f per tube with two 12 fiber groups

### FIBER INFORMATION

<b>5 FIBER TYPE</b>	<b>SINGLE-MODE</b>			
	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)			
	<b>MULTIMODE</b>	Wavelength (nm)	Bandwidth (MHz)	1 GbE Dist (m)
	G6 = OM1 (62.5µm)	850/1300	200/500	300/550
	G5 = OM2+ BIF (50µm)	850/1300	700/500	800
	G3 = OM3 BIF (50µm)	850/1300	1500/500	1000
	G4 = OM4 BIF (50µm)	850/1300	3500/500	1100
<b>6 FIBER COUNT</b>	004to 432 fibers			

7 FIBER GRADE			7 FIBER GRADE		
SINGLE-MODE Attenuation (dB/km)	Wavelength (nm)	Fiber Type	MULTIMODE Attenuation (dB/km)	Wavelength (nm)	Fiber Type
E1 = 0.40/0.40/0.30	1310/1383/1550	HB, ES, or CE	M2 = 3.5/1.0	850/1300	OM1 (62.5µm)
E3 = 0.35/0.35/0.25	1310/1383/1550	HB, ES, CE, B1, or B2	M3 = 3.0/1.0	850/1300	OM2+, OM3, OM4 (50µm)
NA = 0.40/0.25	1310/1550	TeraLight Ultra SM			
N1 = 0.25	1550	LEAF SM			

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