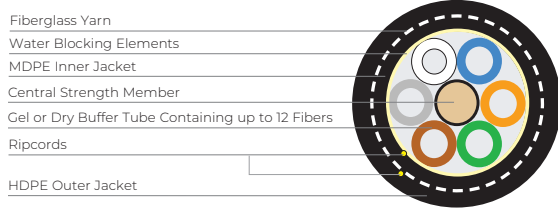


ExpressLT™

All-Dielectric Armor Cable



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.

SPECIFICATIONS / RATINGS

Applications	Multi-purpose outdoor, aerial lashed, duct, direct buried
Constructions	Gel or dry buffer tubes
Fiber Count	4 to 432 fibers in color-coded buffer tubes
Fiber Types	Single-mode / bend-insensitive / NZDSF / multimode / hybrid
Options	Steel central member / 24 AWG copper pair(s) / 16 AWG tonewire
Other Versions	Standard loose tube all-dielectric non-armor or metallic armor cable, gel or dry
Standards	ANSI / ICEA 640, RUS 7 CFR 755 (RUS Listed), Telcordia GR-20
Registered Supplier	ISO 9001, ISO 14001, TL 9000, and OHSAS 18001



FEATURES AND BENEFITS

Enhanced Mechanical Protection

- All-dielectric armor provides enhanced mechanical and 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



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All-Dielectric Armor Loose Tube (EDHDA2J)

Fiber Count Range	Recommended Fiber Count	Recommended Part Number	# of Buffer Tubes	Diameter		Approx. Cable Weight		Bend Radius Load		Bend Radius No Load		Max. Reel Length	
		Prysmian*		Inches	mm	lb/kft	kg/km	Inches	cm	inches	cm	feet	meters
6 to 60	6	EDHDA2J-12-AA-006-BB	5	0.52	13.2	77	114	10	25	5	13	41,010	12,500
	12	EDHDA2J-12-AA-012-BB											
	24	EDHDA2J-12-AA-024-BB											
	36	EDHDA2J-12-AA-036-BB											
	48	EDHDA2J-12-AA-048-BB											
	60	EDHDA2J-12-AA-060-BB											
62 to 72	72	EDHDA2J-12-AA-072-BB	6	0.53	13.5	86	128	11	27	5	13	41,010	12,500
74 to 96	96	EDHDA2J-12-AA-096-BB	8	0.58	14.7	110	163	12	29	6	15	41,010	12,500
98 to 120	120	EDHDA2J-12-AA-120-BB	10	0.65	16.6	134	200	13	32	6	17	41,010	12,500
122 to 144	144	EDHDA2J-12-AA-144-BB	12	0.72	18.4	155	230	14	36	7	18	37,994	11,581
146 to 216	216	EDHDA2J-12-AA-216-BB	18	0.72	18.4	162	241	14	37	7	18	37,994	11,581
218 to 288	288	EDHDA2J-12-AA-288-BB	24	0.85	21.6	198	264	17	42	8	21	27,510	8,386

All-Dielectric Armor Loose Tube (ETHDA2J)

Fiber Count Range	Recommended Fiber Count	Recommended Part Number	# of Buffer Tubes	Diameter		Approx. Cable Weight		Bend Radius Load		Bend Radius No Load		Max. Reel Length	
		Prysmian*		Inches	mm	lb/kft	kg/km	Inches	cm	inches	cm	feet	meters
6 to 60	6	ETHDA2J-12-AA-006-BB	5	0.52	13.2	80	119	10	25	5	13	41,010	12,500
	12	ETHDA2J-12-AA-012-BB											
	24	ETHDA2J-12-AA-024-BB											
	36	ETHDA2J-12-AA-036-BB											
	48	ETHDA2J-12-AA-048-BB											
	60	ETHDA2J-12-AA-060-BB											
6 to 72	72	ETHDA2J-12-AA-072-BB	6	0.53	13.5	90	134	11	27	5	13	41,010	12,500
74 to 96	96	ETHDA2J-12-AA-096-BB	8	0.58	14.7	115	171	12	29	6	15	41,010	12,500
98 to 120	120	ETHDA2J-12-AA-120-BB	10	0.65	16.6	141	210	13	32	6	17	41,010	12,500
122 to 144	144	ETHDA2J-12-AA-144-BB	12	0.72	18.4	169	252	14	36	7	18	37,994	11,581
146 to 216	216	ETHDA2J-12-AA-216-BB	18	0.72	18.4	172	256	14	37	7	18	37,994	11,581
218 to 288	288	ETHDA2J-12-AA-288-BB	24	0.85	21.6	214	318	17	42	8	21	27,510	8,386
290 to 432	432	EDHDA2J-24-AA-432-BB	18	0.81	20.7	200	298	16	41	8	21	29,386	8,958

* Where AA equals glass type and BB equals attenuation

Installation

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

Mechanical Performance (per ICEA 640 and Telcordia GR20)

Minimum installation bend radius: 20 times the cable diameter
Minimum operating bend radius: 10 times the cable diameter
Short Term Compression: 220 N/cm over 10 cm (125 lb/in over 4 inches)
Long Term Compression: 110 N/cm over 10 cm (62.5 lb/in over 4 inches)
Impact Load: 4.4 Nm



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Ordering Guide

The Prysmian 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		B1		072		E3

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

FIBER INFORMATION	
5	FIBER TYPE
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)	
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 B1, BU, DU, or B2
E3 = 0.35/0.35/0.25	1310/1383/1550 B1, BU, DU, or B2
MULTIMODE	
Attenuation (dB/km)	Wavelength (nm) Fiber Type
M2 = 3.5/1.0	850/1300 OM1 (62.5µm)
M3 = 3.0/1.0	850/1300 OM2+, OM3, OM4 (50µm)

Other cable constructions and fiber performance grades available on request.