

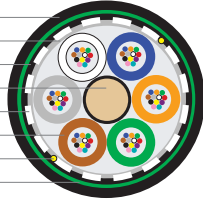
ExpressLT™ Gel

Gel-filled loose tube cable (2.5 mm)

Prysmian



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)



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.

SPECIFICATIONS / RATINGS

Applications Multi-purpose outdoor, aerial lashed, duct, direct buried (when armored)

Constructions Dielectric, armored, double armored, dual jacket

Fiber Count 4 to 432 fibers in color-coded buffer tubes

Fiber Types Single-mode, multimode, bend-insensitive, NZDS

Options Steel central member, 24 AWG copper pair, 16 AWG tonewire, striped jacket, factory-installed pulling eye

Similar Alternatives Dry buffer tubes / LT 2.0 / heavy duty / central / indoor-outdoor / indoor / self-support / microduct

Standards 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



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'
- 2.5 mm 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

Prysmian

A Brand of Prysmian Group

Prysmian Group

4 Tesseneer Drive, Highland Heights, KY 41076
+1-859-572-8000 / na.prysmiangroup.com
TLS-DS-A-102-1022

Dielectric (Non-Armored) (ETH1JKT)

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*	General Cable**		Inches	mm	lb/kft	kg/km	Inches	cm	inches	cm	feet	meters
6 to 60	6	ETH1JKT-12-AA-006-BB	XX0064M1A-DWB	5	0.40	10.1	46	69	8	20	4	10	59,054	18,000
	12	ETH1JKT-12-AA-012-BB	XX0124M1A-DWB											
	24	ETH1JKT-12-AA-024-BB	XX0244M1A-DWB											
	36	ETH1JKT-12-AA-036-BB	XX0364M1A-DWB											
	48	ETH1JKT-12-AA-048-BB	XX0484M1A-DWB											
72	72	ETH1JKT-12-AA-072-BB	XX0724M1A-DWB	6	0.43	10.9	55	81	8	22	4	11	59,054	18,000
84 to 96	96	ETH1JKT-12-AA-096-BB	XX0964M1A-DWB	8	0.47	12.0	71	105	10	25	5	13	59,054	18,000
108 to 120	120	ETH1JKT-12-AA-120-BB	XX1204M1A-DWB	10	0.54	13.7	88	131	11	28	6	14	59,054	18,000
132 to 144	144	ETH1JKT-12-AA-144-BB	XX1444M1A-DWB	12	0.61	15.5	117	174	13	32	6	16	48,528	14,792
156 to 216	216	ETH1JKT-12-AA-216-BB	XX2164M1A-DWB	18	0.61	15.5	120	179	13	32	6	16	48,528	14,792
228 to 264	264	ETH1JKT-12-AA-264-BB	XX2644M1A-DWB	22	0.68	17.3	143	212	14	35	7	17	41,010	12,500
276 to 288	288	ETH1JKT-12-AA-288-BB	XX2884M1A-DWB	24	0.71	18.1	162	240	14	37	7	18	39,820	12,139
290 to 432	432	ETH1JKT-12-AA-432-BB	XX4324M1A-DWB	36	0.81	20.6	188	281	16	41	8	21	31,095	9,479

Single Jacket Armored (SP) (ETH1A1J)

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*	General Cable**		Inches	mm	lb/kft	kg/km	Inches	cm	inches	cm	feet	meters
6 to 60	6	ETH1A1J-12-AA-006-BB	XX0064M1F-DWB	5	0.46	11.8	92	137	9	24	5	12	59,054	18,000
	12	ETH1A1J-12-AA-012-BB	XX0124M1F-DWB											
	24	ETH1A1J-12-AA-024-BB	XX0244M1F-DWB											
	36	ETH1A1J-12-AA-036-BB	XX0364M1F-DWB											
	48	ETH1A1J-12-AA-048-BB	XX0484M1F-DWB											
72	72	ETH1A1J-12-AA-072-BB	XX0724M1F-DWB	6	0.50	12.6	101	151	10	25	5	13	59,054	18,000
84 to 96	96	ETH1A1J-12-AA-096-BB	XX0964M1F-DWB	8	0.56	14.3	130	194	11	29	6	14	59,054	18,000
108 to 120	120	ETH1A1J-12-AA-120-BB	XX1204M1F-DWB	10	0.63	15.9	155	230	12	32	6	16	48,528	14,792
132 to 144	144	ETH1A1J-12-AA-144-BB	XX1444M1F-DWB	12	0.69	17.6	188	280	14	35	7	18	41,010	12,500
156 to 216	216	ETH1A1J-12-AA-216-BB	XX2164M1F-DWB	18	0.70	17.9	188	280	14	36	7	18	41,010	12,500
228 to 264	264	ETH1A1J-12-AA-264-BB	XX2644M1F-DWB	22	0.76	19.4	210	313	15	39	8	19	35,306	10,762
276 to 288	288	ETH1A1J-12-AA-288-BB	XX2884M1F-DWB	24	0.81	20.7	230	343	16	42	8	21	29,386	8,958
290 to 432	432	ETH1A1J-12-AA-432-BB	XX4324M1F-DWB	36	0.90	23.0	277	385	18	46	9	23	24,054	7,332

Double Jacket Single Armored (PSP) (ETH1A2J)

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*	General Cable**		Inches	mm	lb/kft	kg/km	Inches	cm	inches	cm	feet	meters
6 to 60	6	ETH1A2J-12-AA-006-BB	XX0064H1F-DWB	5	0.53	13.5	111	165	11	27	5	14	59,054	18,000
	12	ETH1A2J-12-AA-012-BB	XX0124H1F-DWB											
	24	ETH1A2J-12-AA-024-BB	XX0244H1F-DWB											
	36	ETH1A2J-12-AA-036-BB	XX0364H1F-DWB											
	48	ETH1A2J-12-AA-048-BB	XX0484H1F-DWB											
72	72	ETH1A2J-12-AA-072-BB	XX0724H1F-DWB	6	0.55	14.0	126	187	11	28	5	14	59,054	18,000
84 to 96	96	ETH1A2J-12-AA-096-BB	XX0964H1F-DWB	8	0.61	15.5	143	212	12	31	6	16	53,510	16,310
108 to 120	120	ETH1A2J-12-AA-120-BB	XX1204H1F-DWB	10	0.67	17.1	174	259	13	34	7	17	43,104	13,139
132 to 144	144	ETH1A2J-12-AA-144-BB	XX1444H1F-DWB	12	0.74	18.9	210	312	15	38	7	19	35,816	10,918
156 to 216	216	ETH1A2J-12-AA-216-BB	XX2164H1F-DWB	18	0.76	19.2	210	312	15	38	8	19	35,688	10,879
228 to 264	264	ETH1A2J-12-AA-264-BB	XX2644H1F-DWB	22	0.80	20.4	235	349	16	41	8	20	31,446	9,586
276 to 288	288	ETH1A2J-12-AA-288-BB	XX2884H1F-DWB	24	0.86	21.8	255	380	17	44	9	22	29,088	8,867
290 to 432	432	ETH1A2J-12-AA-432-BB	XX4324H1F-DWB	36	0.94	24.0	285	424	19	48	9	24	22,400	6,828

* Where AA equals glass type and BB equals attenuation

** Where XX equals glass type

Dielectric Double Jacket (PDP) (ETHNA2J)

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*	General Cable**		Inches	mm	lb/kft	kg/km	Inches	cm	inches	cm	feet	meters
6 to 60	6	ETHNA2J-12-AA-006-BB	XX0064H1A-DWB	5	0.46	11.7	68	101	9	23	5	12	41,010	12,500
	12	ETHNA2J-12-AA-012-BB	XX0124H1A-DWB											
	24	ETHNA2J-12-AA-024-BB	XX0244H1A-DWB											
	36	ETHNA2J-12-AA-036-BB	XX0364H1A-DWB											
	48	ETHNA2J-12-AA-048-BB	XX0484H1A-DWB											
72	72	ETHNA2J-12-AA-072-BB	XX0724H1A-DWB	6	0.48	12.2	78	116	10	25	5	12	41,010	12,500
84 to 96	96	ETHNA2J-12-AA-096-BB	XX0964H1A-DWB	8	0.54	13.8	97	144	11	28	5	14	41,010	12,500
108 to 120	120	ETHNA2J-12-AA-120-BB	XX1204H1A-DWB	10	0.61	15.4	121	180	12	31	6	15	41,010	12,500
132 to 144	144	ETHNA2J-12-AA-144-BB	XX1444H1A-DWB	12	0.67	17.1	145	216	13	34	7	17	41,010	12,500
156 to 216	216	ETHNA2J-12-AA-216-BB	XX2164H1A-DWB	18	0.67	17.1	154	228	13	34	7	17	41,010	12,500
228 to 264	264	ETHNA2J-12-AA-264-BB	XX2644H1A-DWB	22	0.74	18.7	179	266	15	37	7	19	36,138	11,016
276 to 288	288	ETHNA2J-12-AA-288-BB	XX2884H1A-DWB	24	0.78	19.8	200	298	16	40	8	20	33,220	10,126

Double Jacket Double Armored (SPSP) (ETH2A2J)

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*	General Cable**		Inches	mm	lb/kft	kg/km	Inches	cm	inches	cm	feet	meters
6 to 60	6	ETH2A2J-12-AA-006-BB	XX0064H1S-DWB	5	0.64	16.3	186	277	13	33	6	16	41,010	12,500
	12	ETH2A2J-12-AA-012-BB	XX0124H1S-DWB											
	24	ETH2A2J-12-AA-024-BB	XX0244H1S-DWB											
	36	ETH2A2J-12-AA-036-BB	XX0364H1S-DWB											
	48	ETH2A2J-12-AA-048-BB	XX0484H1S-DWB											
72	72	ETH2A2J-12-AA-072-BB	XX0724H1S-DWB	6	0.67	17.1	198	295	13	34	7	17	41,010	12,500
84 to 96	96	ETH2A2J-12-AA-096-BB	XX0964H1S-DWB	8	0.75	19.1	231	344	15	38	8	19	35,306	10,762
108 to 120	120	ETH2A2J-12-AA-120-BB	XX1204H1S-DWB	10	0.80	20.4	265	394	16	41	8	20	31,096	9,479
132 to 144	144	ETH2A2J-12-AA-144-BB	XX1444H1S-DWB	12	0.88	22.4	325	483	18	45	9	22	25,630	7,813
156 to 216	216	ETH2A2J-12-AA-216-BB	XX2164H1S-DWB	18	0.88	22.4	317	472	18	45	9	22	25,630	7,813
228 to 264	264	ETH2A2J-12-AA-264-BB	XX2644H1S-DWB	22	0.94	23.9	353	525	19	48	9	24	22,400	6,828
276 to 288	288	ETH2A2J-12-AA-288-BB	XX2884H1S-DWB	24	0.98	24.9	384	571	20	50	10	25	20,282	6,182

Triple Jacket Double Armored (PSPSP) (ETH2A3J)

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*	General Cable**		Inches	mm	lb/kft	kg/km	Inches	cm	inches	cm	feet	meters
6 to 60	6	ETH2A3J-12-AA-006-BB	XX0064E1S-DWB	5	0.70	17.8	218	325	14	36	7	18	40,248	12,268
	12	ETH2A3J-12-AA-012-BB	XX0124E1S-DWB											
	24	ETH2A3J-12-AA-024-BB	XX0244E1S-DWB											
	36	ETH2A3J-12-AA-036-BB	XX0364E1S-DWB											
	48	ETH2A3J-12-AA-048-BB	XX0484E1S-DWB											
72	72	ETH2A3J-12-AA-072-BB	XX0724E1S-DWB	6	0.73	18.6	232	345	15	37	7	19	35,654	10,868
84 to 96	96	ETH2A3J-12-AA-096-BB	XX0964E1S-DWB	8	0.78	19.9	270	402	16	40	8	20	31,852	9,709
108 to 120	120	ETH2A3J-12-AA-120-BB	XX1204E1S-DWB	10	0.86	21.9	320	476	17	43	9	22	27,160	8,279
132 to 144	144	ETH2A3J-12-AA-144-BB	XX1444E1S-DWB	12	0.93	23.7	379	564	19	47	9	24	22,330	6,807
156 to 216	216	ETH2A3J-12-AA-216-BB	XX2164E1S-DWB	18	0.93	23.7	379	564	19	47	9	24	22,330	6,807
228 to 264	264	ETH2A3J-12-AA-264-BB	XX2644E1S-DWB	22	0.98	25.0	417	620	20	50	10	25	20,312	6,192
276 to 288	288	ETH2A3J-12-AA-288-BB	XX2884E1S-DWB	24	1.02	26.0	446	663	20	52	10	26	18,680	5,694

* Where AA equals glass type and BB equals attenuation

** Where XX equals glass type

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)

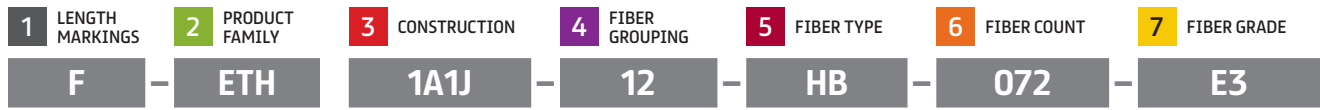
Mechanical Performance (per ICEA 640 and Telcordia GR20)

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

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™ gel-filled | single armor single jacket (12 fibers/tube) with 72 single-mode fibers (printed in feet)



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 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)				
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)				
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, BU, DU, or B2	
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.