

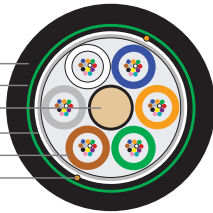
LT 2.0 with Bend Insensitive Fiber

Gel loose tube cable

Prysmian



MDPE Outer Jacket
ezPrep® Corrugated Steel Armor (optional)
Central Strength Member
Water Blocking Tape
2.0 mm Dry Buffer Tube (Gel-Filled)
Ripcord



OVERVIEW

A compact, bend-optimized solution for the outside plant, LT2.0 is a multi-purpose loose tube cable offering a 10% to 20% reduction in diameter depending on the design and up to 30% reduction in weight while meeting or exceeding RUS/RDUP and GR20 industry standards. This product platform utilizes bend-insensitive single-mode fiber to deliver superior bending tolerance and cold temperature performance.

SPECIFICATIONS / RATINGS

Applications	Multi-purpose outdoor, aerial lashed, duct, direct buried
Constructions	Dielectric, armored, double armored, dual jacket (armored designs)
Fiber Count	4 to 456 fibers in color-coded buffer tubes
Fiber Types	G657.A1 or A2 bend-insensitive single-mode
Options	Dry buffer tubes
Similar Alternatives	Loose tube with 2.5 buffer tubes for indoor, outdoor, or indoor-outdoor applications
Standards	ICEA 640, RUS 7 CFR 1755, Telcordia GR-20, and IEC 60794-3-11
Registered Supplier	ISO 9001, ISO 14001, TL 9000, and OHSAS 18001



FEATURES AND BENEFITS

Up to 20% Smaller Than Standard Loose Tube cable

- Counts up to 456 can be placed in a 1-inch duct
- Smaller, less-expensive duct can be used
- Can be placed into occupied ducts

Improved reel capacities

- Up to 40% more cable on a reel
- Longer lengths can be installed from the same reel or smaller, lighter reels can be used
- Saves money on storage & overcomes pay-off limitations

Up to 30% Lighter Than Standard Loose Tube Cable

- Easier to handle during installation
- Less load on aerial structures
- Further reduces total weight (reel + cable)

Smaller Cable Bend Radius

- Easier to install in tight spaces
- Allows use of smaller pedestals and hand-holes

RDUP/RUS PE90 Compliant Cable and Buffer Tube

- Up to 16 feet of tube can be stored in closures

Smaller Buffer Tube Bend Radius

- Flexible 2.0 mm tube is highly kink-resistant
- Can be stored in a 20 mm radius with G657.A2 fiber
- More tube can be stored in a small space
- Allows use of smaller splice trays and closures

Bend-Insensitive Fiber

- ITU G657.A1 fiber is rated for bends down to 10 mm
- ITU G657.A2 fiber is rated for bends down to 7.5 mm
- Fully compliant to G.652.D SSMF specs

Improved Cable Entry and Preparation

- ezPREP® armor greatly improves mid-sheath cable entry
- Dual ripcords speed armored cable entry and outer jacket removal
- Dry core design speeds cable preparation

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All-Dielectric (Non-Armored) Gel Tube (E2G1JKT)

Fiber Count Range	Recommended Fiber Count	Recommended Part Number Prysmian*	# of Buffer Tubes	Diameter		Approx. Cable Weight		Bend Radius Load		Bend Radius No Load		Max. Reel Length	
				Inches	mm	lb/kft	kg/km	Inches	cm	inches	cm	feet	meters
6 to 72	6	E2G1JKT-12-AA-006-BB	6	0.37	9.5	45	67	8	19	4	10	41,010	12,500
	12	E2G1JKT-12-AA-012-BB											
	24	E2G1JKT-12-AA-024-BB											
	36	E2G1JKT-12-AA-036-BB											
	48	E2G1JKT-12-AA-048-BB											
72	E2G1JKT-12-AA-072-BB												
74 to 96	96	E2G1JKT-12-AA-096-BB	8	0.42	10.6	56	83	8	21	4	11	41,010	12,500
98 to 120	120	E2G1JKT-12-AA-120-BB	10	0.45	11.5	66	98	9	23	5	12	41,010	12,500
122 to 144	144	E2G1JKT-12-AA-144-BB	12	0.50	12.7	81	120	10	25	5	13	41,010	12,500
156 to 216	216	E2G1JKT-12-AA-216-BB	18	0.53	13.4	87	130	11	27	5	13	41,010	12,500
228 to 264	264	E2G1JKT-12-AA-264-BB	22	0.56	14.1	99	147	11	28	6	14	41,010	12,500
276 to 288	288	E2G1JKT-12-AA-288-BB	24	0.58	14.7	108	160	12	29	6	15	41,010	12,500
290 to 456	432	E2G1JKT-12-AA-432-BB	38	0.70	17.8	156	233	14	35	7	18	40,248	12,268

Single Jacket Armored (SP) Gel Tube (E2G1A1J)

Fiber Count Range	Recommended Fiber Count	Recommended Part Number Prysmian*	# of Buffer Tubes	Diameter		Approx. Cable Weight		Bend Radius Load		Bend Radius No Load		Max. Reel Length	
				Inches	mm	lb/kft	kg/km	Inches	cm	inches	cm	feet	meters
6 to 72	6	E2G1A1J-12-AA-006-BB	6	0.44	11.2	90	133	9	22	4	11	41,010	12,500
	12	E2G1A1J-12-AA-012-BB											
	24	E2G1A1J-12-AA-024-BB											
	36	E2G1A1J-12-AA-036-BB											
	48	E2G1A1J-12-AA-048-BB											
72	E2G1A1J-12-AA-072-BB												
74 to 96	96	E2G1A1J-12-AA-096-BB	8	0.48	12.2	107	159	10	24	5	12	41,010	12,500
98 to 120	120	E2G1A1J-12-AA-120-BB	10	0.54	13.8	131	195	11	28	5	14	41,010	12,500
122 to 144	144	E2G1A1J-12-AA-144-BB	12	0.60	15.3	152	227	12	31	6	15	41,010	12,500
156 to 216	216	E2G1A1J-12-AA-216-BB	18	0.60	15.3	152	227	12	31	6	15	41,010	12,500
228 to 264	264	E2G1A1J-12-AA-264-BB	22	0.64	16.3	172	257	13	33	6	16	41,010	12,500
276 to 288	288	E2G1A1J-12-AA-288-BB	24	0.66	16.8	181	269	14	35	7	17	41,010	12,500
290 to 456	432	E2G1A1J-12-AA-432-BB	38	0.76	19.4	226	337	15	39	8	19	33,506	10,213

Double Jacket Single Armored (PSP) Gel Tube (E2G1A2J)

Fiber Count Range	Recommended Fiber Count	Recommended Part Number Prysmian*	# of Buffer Tubes	Diameter		Approx. Cable Weight		Bend Radius Load		Bend Radius No Load		Max. Reel Length	
				Inches	mm	lb/kft	kg/km	Inches	cm	inches	cm	feet	meters
6 to 72	6	E2G1A2J-12-AA-006-BB	6	0.49	12.5	104	156	10	25	5	13	41,010	12,500
	12	E2G1A2J-12-AA-012-BB											
	24	E2G1A2J-12-AA-024-BB											
	36	E2G1A2J-12-AA-036-BB											
	48	E2G1A2J-12-AA-048-BB											
72	E2G1A2J-12-AA-072-BB												
74 to 96	96	E2G1A2J-12-AA-096-BB	8	0.52	13.3	116	173	10	27	5	13	41,010	12,500
98 to 120	120	E2G1A2J-12-AA-120-BB	10	0.58	14.8	141	210	12	30	6	15	41,010	12,500
122 to 144	144	E2G1A2J-12-AA-144-BB	12	0.62	15.8	159	237	12	32	6	16	41,010	12,500
156 to 216	216	E2G1A2J-12-AA-216-BB	18	0.63	16.1	163	243	13	32	6	16	41,010	12,500
228 to 264	264	E2G1A2J-12-AA-264-BB	22	0.68	17.3	185	275	14	35	7	17	41,010	12,500
276 to 288	288	E2G1A2J-12-AA-288-BB	24	0.72	18.3	194	288	14	36	7	18	37,916	11,557
290 to 456	432	E2G1A2J-12-AA-432-BB	36	0.82	20.9	253	377	16	42	8	21	29,493	8,990

* Where AA equals glass type and BB equals attenuation

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Dielectric Double Jacket (PDP) Gel Tube (E2GNA2J)

Fiber Count Range	Recommended Fiber Count	Recommended Part Number Prysmian*	# of Buffer Tubes	Diameter		Approx. Cable Weight		Bend Radius Load		Bend Radius No Load		Max. Reel Length	
				Inches	mm	lb/kft	kg/km	Inches	cm	inches	cm	feet	meters
6 to 72	6	E2GNA2J-12-AA-006-BB	6	0.42	10.8	58	86	8	22	4	11	41,010	12,500
	12	E2GNA2J-12-AA-012-BB											
	24	E2GNA2J-12-AA-024-BB											
	36	E2GNA2J-12-AA-036-BB											
	48	E2GNA2J-12-AA-048-BB											
72	E2GNA2J-12-AA-072-BB												
74 to 96	96	E2GNA2J-12-AA-096-BB	8	0.47	12.0	71	105	9	24	5	12	41,010	12,500
98 to 120	120	E2GNA2J-12-AA-120-BB	10	0.52	13.3	87	130	10	27	5	13	41,010	12,500
122 to 144	144	E2GNA2J-12-AA-144-BB	12	0.57	14.5	105	156	11	29	6	15	41,010	12,500
156 to 216	216	E2GNA2J-12-AA-216-BB	18	0.57	14.5	105	156	11	29	6	15	41,010	12,500
218 to 264	264	E2GNA2J-12-AA-264-BB	22	0.63	15.9	125	186	13	32	6	16	41,010	12,500
266 to 288	288	E2GNA2J-12-AA-288-BB	24	0.65	16.5	135	202	13	33	7	17	41,010	12,500

Double Jacket Double Armored (SPSP) Gel Tube (E2G2A2J)

Fiber Count Range	Recommended Fiber Count	Recommended Part Number Prysmian*	# of Buffer Tubes	Diameter		Approx. Cable Weight		Bend Radius Load		Bend Radius No Load		Max. Reel Length	
				Inches	mm	lb/kft	kg/km	Inches	cm	inches	cm	feet	meters
6 to 72	6	E2G2A2J-12-AA-006-BB	6	0.63	16.1	182	270	13	32	6	16	41,010	12,500
	12	E2G2A2J-12-AA-012-BB											
	24	E2G2A2J-12-AA-024-BB											
	36	E2G2A2J-12-AA-036-BB											
	48	E2G2A2J-12-AA-048-BB											
72	E2G2A2J-12-AA-072-BB												
74 to 96	96	E2G2A2J-12-AA-096-BB	8	0.67	17.1	209	310	13	34	7	17	41,010	12,500
98 to 120	120	E2G2A2J-12-AA-120-BB	10	0.73	18.6	246	365	15	37	7	19	37,570	11,452
122 to 144	144	E2G2A2J-12-AA-144-BB	12	0.79	20.1	278	414	16	40	8	20	31,446	9,586
156 to 216	216	E2G2A2J-12-AA-216-BB	18	0.79	20.1	275	409	16	40	8	20	31,446	9,586
218 to 264	264	E2G2A2J-12-AA-264-BB	22	0.83	21.1	306	455	17	42	8	21	29,088	8,867
266 to 288	288	E2G2A2J-12-AA-288-BB	24	0.85	21.6	320	476	17	43	9	22	27,510	8,386

Triple Jacket Double Armored (PSPSP) Gel Tube (E2G2A3J)

Fiber Count Range	Recommended Fiber Count	Recommended Part Number Prysmian*	# of Buffer Tubes	Diameter		Approx. Cable Weight		Bend Radius Load		Bend Radius No Load		Max. Reel Length	
				Inches	mm	lb/kft	kg/km	Inches	cm	inches	cm	feet	meters
6 to 72	6	E2G2A3J-12-AA-006-BB	6	0.68	17.3	206	307	14	35	7	17	41,010	12,500
	12	E2G2A3J-12-AA-012-BB											
	24	E2G2A3J-12-AA-024-BB											
	36	E2G2A3J-12-AA-036-BB											
	48	E2G2A3J-12-AA-048-BB											
72	E2G2A3J-12-AA-072-BB												
74 to 96	96	E2G2A3J-12-AA-096-BB	8	0.71	18.1	226	337	14	36	7	18	39,906	12,164
98 to 120	120	E2G2A3J-12-AA-120-BB	10	0.77	19.6	261	385	15	39	8	20	33,636	10,253
122 to 144	144	E2G2A3J-12-AA-144-BB	12	0.81	20.6	285	424	16	41	8	21	29,840	9,096
156 to 216	216	E2G2A3J-12-AA-216-BB	18	0.88	22.4	290	432	18	45	9	22	25,630	7,813
218 to 264	264	E2G2A3J-12-AA-264-BB	22	0.87	22.1	321	478	17	44	9	22	25,974	7,917
266 to 288	288	E2G2A3J-12-AA-288-BB	24	0.91	23.2	332	494	18	45	9	23	23,784	7,250

* Where AA equals glass type and BB equals attenuation

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 +158° F (-30° C to +70° 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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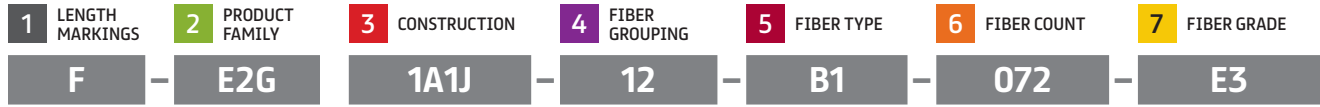
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Ordering Guide

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: LT 2.0 gel | single armor, single jacket (12 fibers/tube) with 72 G657.A1 bend insensitive fibers (printed in feet)



PART NUMBER CONSTRUCTION	
1	LENGTH MARKINGS
F = Feet or M = Meters	
2	PRODUCT FAMILY
E2G = LT 2.0 Gel	
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	
B1 = Bend-Insensitive Single-Mode (ITU G.657.A1 & G.652.D)	
DB = BendBright A1+ Single-Mode (ITU G.657.A1+ & G.652.D)	
B2 = Bend-Insensitive Single-Mode (ITU G.657.A2 & .B2, & G.652.D)	
BX = BendBrightXS Single-Mode (ITU G.657.A2 & B2 & G.652.D)	
6	FIBER COUNT
004 to 456 fibers	
7	FIBER GRADE
SINGLE-MODE	
Max. Attenuation (dB/km)	Wavelength (nm)
E3 = 0.35/0.35/0.25	1310/1383/1550

Other cable constructions and fiber performance grades available on request.