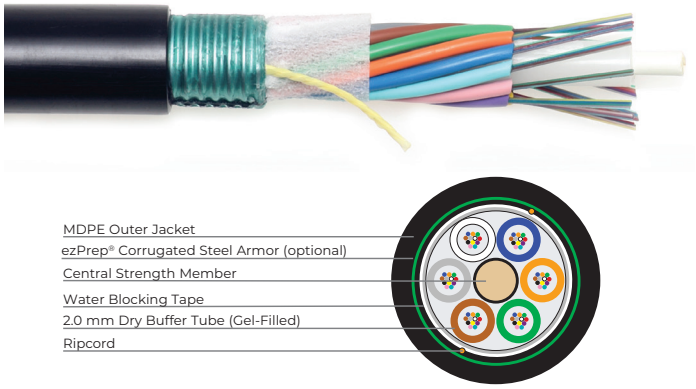
LT 2.0 with Bend Insensitive Fiber

Gel loose tube cable



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

RUS LISTED

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

Prysmian
4 Tesseneer Drive, Highland Heights, KY 41076
na.prysmian.com
TLS-DS-A-103-0226

LT 2.0 with Bend Insensitive Fiber

Gel loose tube cable

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

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 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	# 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 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	# 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 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

Prysmian
4 Tesseneer Drive, Highland Heights, KY 41076
na.prysmian.com
TLS-DS-A-103-0226

LT 2.0 with Bend Insensitive Fiber

Gel loose tube cable

Dielectric Double Jacket (PDP) Gel Tube (E2GNA2J)

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 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	# 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 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	# 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 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

Prysmian
4 Tesseneer Drive, Highland Heights, KY 41076
na.prysmian.com
TLS-DS-A-103-0226

LT 2.0 with Bend Insensitive Fiber

Gel loose tube cable

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: LT 2.0 gel | single armor, single jacket (12 fibers/tube) with 72 G657.A1 bend insensitive 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	–	E2G		1A1J	–	12	–	B1	–	072	–	E3

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.

Prysmian
4 Tesseneer Drive, Highland Heights, KY 41076
na.prysmian.com
TLS-DS-A-103-0226