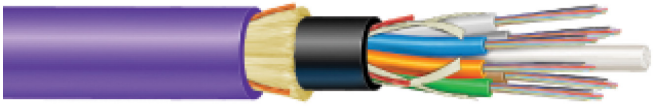
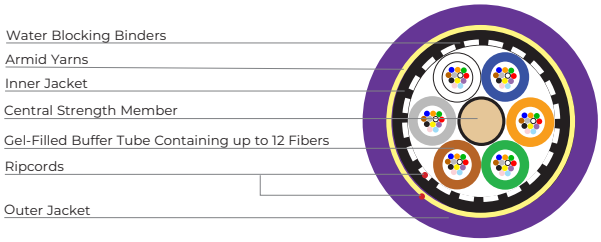
Gen*SPEED*® Loose Tube Mining

Indoor Outdoor MSHA and Tray Cable





OVERVIEW

Prysmian's Gen*SPEED*® indoor/outdoor loose tube mining cable designs provide flame-rated network solutions for mines, mine shafts and other applications requiring elevated tensile and crush performance. This cable design marries Prysmian's proven loose tube construction with upgraded design elements to create a rugged cable for specialty applications. These cables utilize flexible gel-filled buffer tubes with Prysmian's extensive portfolio of single-mode and multimode optical fibers to meet the performance needs for non-traditional installations.

SPECIFICATIONS / RATINGS

Applications	Rugged indoor-outdoor cable providing unsurpassed performance for applications involving placement in mines, mine shafts, or cable trays
Constructions	Dielectric (dual jacket)
Flame Rating	Riser (OFNR / FT4) / MSHA
Fiber Count	2 to 144
Fiber Types	Single-mode (ESMF, bend-insensitive) multimode (62.5/125-OM1, 50/125- OM2+, OM3 and OM4)
Standards	TIA/EIA-568, ANSI/ICEA S-104-696, UL-1666, CSA 22.2, Telcordia GR-409, Telcordia GR-20, US Dept of Labor MSHA, CE RoHS Compliant
Registered Supplier	ISO 9001, ISO 14001, TL 9000, and OHSAS 18001

FEATURES AND BENEFITS

- Accepted by MSHA and Pennsylvania Bureau of Deep Mine Safety
- 4500 N tensile strength to support placement in vertical rise
- 4500 N crush rating for added reliability
- Flexible kink-resistant buffer tubes for routing and storage
- Available with bend-insensitive single-mode and multimode optical fibers
- Fiber identification using TIA standardized color coding
- Flame-retardant, violet outer jacket for easy identification

CE
RoHS Compliant

Prysmian
4 Tesseneer Drive, Highland Heights, KY 41076
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TLS-DS-D-601-0626

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Gen*SPEED*® Mining Cable - Dielectric Dual Jacket (2J - Dry), RLTM Series | OFNR/ FT4

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 - 48	6	RLTM-12-AA-006-BB	5	0.52	13.2	118	176	10	26	5	13	41,010	12,500
	12	RLTM-12-AA-012-BB											
	24	RLTM-12-AA-024-BB											
	36	RLTM-12-AA-036-BB											
	48	RLTM-12-AA-048-BB											
72	72	RLTM-12-AA-072-BB	6	0.55	13.9	128	191	11	28	5	14	41,010	12,500
96	96	RLTM-12-AA-096-BB	8	0.63	15.9	166	247	13	32	6	16	41,010	12,500
120	120	RLTM-12-AA-120-BB	10	0.69	17.6	202	301	14	35	7	18	33,524	10,218
144	144	RLTM-12-AA-144-BB	12	0.77	19.4	267	397	15	39	8	19	33,524	10,218

* Where AA equals glass type and BB equals attenuation

Installation

Maximum installation load:	1000 lbf	(4500 N)
Maximum operation load:	300 lbf	(1335 N)

Temperature Range

Shipping and Storage:	-58° F to +158° F	(-50° C to +70° C)
Installation:	+14° F to +140° F	(-10° C to +60° C)
Operation:	-58° F to +158° F	(-50° C to +70° C)

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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: Gen*SPEED*® loose tube mining cable | indoor/outdoor riser | gel-filled buffer tubes | dielectric (double jacket)
12 singlemode fibers per buffer tube | 48 fibers total (printed in feet)

1 LENGTH MARKINGS		2 PRODUCT FAMILY		3 CONSTRUCTION		4 FIBER GROUPING		5 FIBER TYPE		6 FIBER COUNT		7 FIBER GRADE
F	–	RLTM	–	BLANK	–	12	–	B1	–	048	–	E3

PART NUMBER CONSTRUCTION

1 LENGTH MARKINGS

F = Feet or M = Meters

2 PRODUCT FAMILY

RLTM = Mining Indoor/Outdoor Riser Dielectric (double jacket)

3 CONSTRUCTION

(Blank) = None

4 FIBER GROUPING

12 = 12f per unit or tube

FIBER INFORMATION

5 FIBER TYPE

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)

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

002 to 144 fibers

7 FIBER GRADE

SINGLE-MODE Attenuation (dB/km)	Wavelength (nm)	Fiber Type
E1 = 0.40/0.40/0.30	1310/1383/1550	B1 or B2
E3 = 0.35/0.35/0.25	1310/1383/1550	B1 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.

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