

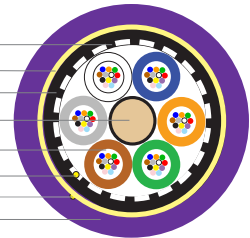


ezLINK™ Indoor/Outdoor Loose Tube Mining Cable

MSHA and tray cable



- Water Blocking Binders
- Armid Yarns
- Inner Jacket
- Central Strength Member
- Gel-Filled Buffer Tube Containing up to 12 Fibers
- Ripcords
- Outer Jacket



Versatile indoor/outdoor flame-rated fiber cables designed for the rigors of mining operations

Overview

Prysmian's ezLINK™ 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.

Product Snapshot

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)
Performance	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



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Nominal Design Parameters

ezLINK™ Indoor/Outdoor Riser Loose Tube Mining Cable | RLTM Series | OFNR/FT4

Fiber Count	Number of Buffer Tubes	Fibers Per Unit	Diameter inches (mm)	Cable Weight lb/kft (kg/km)	Bend Radius UNDER LOAD inches (cm)	Bend Radius NO LOAD inches (cm)	Vertical Rise Between Supports feet (m)
2 - 60	5	12	0.52 (13.2)	118 (176)	10.4 (26.4)	5.2 (13.2)	2568 (783)
62 - 72	6	12	0.55 (13.9)	128 (191)	11.0 (27.9)	5.5 (14.0)	2366 (721)
74 - 84	7	12	0.59 (15.1)	150 (223)	11.9 (30.2)	6.0 (15.1)	2027 (618)
86 - 96	8	12	0.63 (15.9)	166 (247)	12.6 (31.8)	6.3 (15.9)	1830 (558)
98 - 108	9	12	0.67 (17.0)	190 (282)	13.4 (34.0)	6.7 (17.0)	1603 (488)
110 - 120	10	12	0.69 (17.6)	202 (301)	13.9 (35.2)	7.0 (17.6)	1502 (458)
122 - 132	11	12	0.73 (18.5)	223 (332)	14.6 (37.0)	7.3 (18.5)	1361 (415)
134 - 144	12	12	0.76 (19.4)	247 (367)	15.3 (38.9)	7.7 (19.5)	1232 (375)

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: ezLINK™ loose tube mining cable | indoor/outdoor riser | gel-filled buffer tubes | dielectric (double jacket) 12 62.5/125 multimode 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	G6	048	M2

CABLE INFORMATION	
1 LENGTH MARKINGS	F = Feet or M = Meters
2 PRODUCT FAMILY	RLTM = Mining Indoor/Outdoor Riser Dielectric (double jacket) 2 to 144 fibers Flame Rating: OFNR/FT4
3 CONSTRUCTION	(blank) = Not available with interlock armor
4 FIBER GROUPING	12 = 12f per unit or 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)				
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	HB, ES, or CE		
E3 = 0.35/0.35/0.25	1310/1383/1550	HB, ES, CE, 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.				

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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