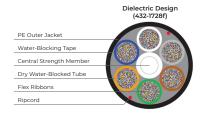
MassLink™ with 250µm Fiber FlexRibbon™ Technology

432 to 1728 Fiber Designs









OVERVIEW

MassLink™ with FlexRibbon™ Technology provides an ultracompact outside plant cable design that contains up to 1728 bend insensitive fibers. By using FlexRibbon technology, ribbons are rolled up and packed together in small diameter sub units. While FlexRibbon™ provides high packing density, these 250 ųm fiber ribbons still provide the advantages of mass fusion splicing.

FEATURES AND BENEFITS

Ultra Compact Design

- FlexRibbons™ are rolled up into compact 72 to 288 fiber sub units for easier routing
- Significantly smaller diameter and lighter weight cables allow for easier installation and the use of smaller ducts
- With as much as 21% smaller diameter (38% volume reduction) over traditional ribbon designs, maximizing duct space utilization

FlexRibbon Technology

- Extremely flexible ribbons can be rolled up for high packing densities or laid flat for ribbon splicing
- 12 fiber ribbons are compatible with mass fusion heat strippers, cleavers, and splice machines
- Uses standard 250 um coated bend-insensitive fiber (ITU G657.A1)



Performance

- Uses full dry water blocking technology in the tubes and cable core for easy closure preparation and termination
- Tested in accordance with GR 20/ICEA 640 and with relevant EIA/TIA-455 series FOTPs for fiber optic cables

Registered Supplier

· ISO 9001, ISO 14001, TL 9000, and OHSAS 18001

PERFORMANCE SPECIFICATIONS							
Tensile Rating	N	lbf					
Installation	2700	600					
Residual	800	180					
Crush Resistance	N/cm	lbf/in					
Short/ Long Term	220/110	125/63					
Temperature Ratings	°C	°F					
Operation	-30 to +70	-22 to +158					
Installation	-30 to +60	-22 to +140					
Storage/Shipping	-40 to +70	-40 to +158					

CABLE BENDING									
Fiber Count	432		576-	864	1152-1728				
Jacket Design	Dielectrc Armored		Dielectrc	Armored	Dielectrc	Armored			
Minimum Bend Diameter (Diameter = Radius x 2)									
Installation: Wheel/Capstan	32 in (82 cm)	37 in (93 cm)	36 in (90 cm)	41 in (104 cm)	40 in (100 cm)	47 in (120 cm)			
Long Term: Coil/Slack/Bend	17 in 19 in (43 cm)		19 in (48 cm)	22 in (55 cm)	20 in (50 cm)	25 in (63 cm)			
Minimum Bend Radius (Diameter = Radius x 2)									
Installation: Wheel/Capstan	20 x Cable OD								
Long Term: Coil/Slack/Bend	10 x Cable OD								
Duct Size / % Fill	iize / % Fill 1"/ 80% 1½"/ 73%		11/4"/ 71%	11/4"/ 81.5%	1¼"/ 78%	1½"/79%			

Note: Vibratory Plowing is not recommended for these designs.



MassLink[™] with 250µm Fiber FlexRibbon[™] Technology

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RIBBON COLOR CODE								
Ribbon #	Marking	Ribbon #	Marking					
1		13						
2		14						
3		15						
4		16						
5		17						
6		18						
7		19						
8		20						
9		21						
10		22						
11		23						
12		24						

	Recommended	d Recommended Prysmian* Part Number	# of Tubes	# of Ribbons/ TubeTubes	# of Fibers/ Tube	Buffer Tube OD		Cable OD		Approx. Cable Weight		Max. Reel Length	
	Fiber Count					Inches	mm	Inches	mm	lb/kft	kg/km	feet	meters
Dielectric													
432	432	RLF1JKT-12-AA-432-BB	6	6	72	0.23	5.8	0.80	20.4	160	238	31,814	9,697
576-864	864	RLF1JKT-12-AA-864-BB	6	12	144	0.26	6.6	0.89	22.5	210	312	26,155	7,972
1152-1728	1728	RLF1JKT-12-AA-1728-BB	6	24	288	0.29	7.4	0.98	24.9	254	379	18,206	5,731
Armored													
432	432	RLF1A1J-12-AA-432-BB	6	6	72	0.23	5.8	0.91	23.1	178	264	24,813	7,563
576-864	864	RLF1A1J-12-AA-864-BB	6	12	144	0.26	6.6	1.02	25.9	312	464	19,737	6,016
1152-1728	1728	RLF1A2J-12-AA-1728-BB	6	24	288	0.29	7.4	1.19	30.1	421	627	16,582	5,054

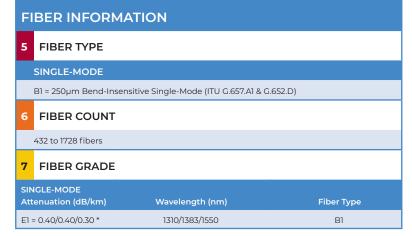
^{*} Where AA equals glass type and BB equals attenuation

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



PART NUMBER CONSTRUCTION 1 LENGTH MARKINGS F = Feet, M = Meters, or B = BABA Compliant in Feet 2 PRODUCT FAMILY RLF = MassLink with FlexRibbon Technology 3 CONSTRUCTION 1JKT = All Dielectric Single Jacket (432-1728f) 1AJJ = Single Corrugated Steel Armor Single Jacket (432-864f) 1A2J = Single Corrugated Steel Armor Double Jacket (1152-1728f) 4 FIBER GROUPING 12 = 12f per ribbon



^{*} Typical Attenuation values for 1728f = 0.33/0.20 dB/km at 1310nm/1550nm

Notes: Please refer to the Fiber Code Addendum for additional fiber options, or contact us for help. Other cable constructions and fiber performance grades available on request.



Prysmian