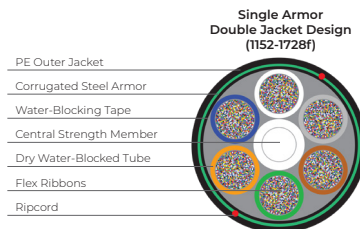
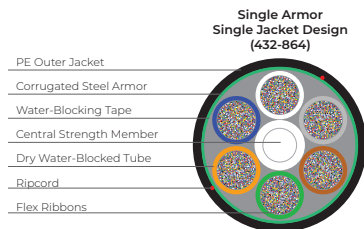
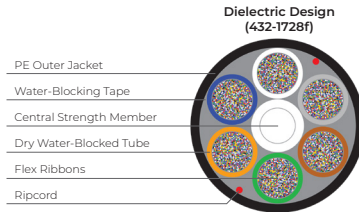
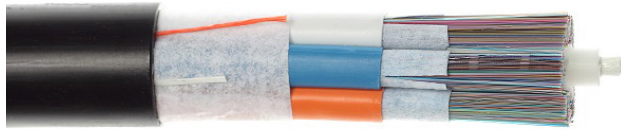


MassLink™ with 250µm Fiber FlexRibbon™ Technology

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 µm 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	Dielectric	Armored	Dielectric	Armored	Dielectric	Armored
Minimum Bend Diameter (Diameter = Radius x 2)						
Installation: Wheel/Capstan	31 in (78 cm)	36 in (92 cm)	34 in (88 cm)	40 in (101 cm)	40 in (100 cm)	47 in (120 cm)
Long Term: Coil/Slack/Bend	16 in (41 cm)	19 in (48 cm)	18 in (46 cm)	21 in (53 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	1" / 77%	1¼" / 72%	1¼" / 69%	1¼" / 80%	1¼" / 78%	1½" / 79%

Note: Vibratory Plowing is not recommended for these designs.



Prysmian

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TLS-DS-A-309-0525

MassLink™ with 250µm Fiber FlexRibbon™ Technology

432 to 1728 Fiber Designs



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	■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■

Fiber Count Range	Recommended Fiber Count	Recommended Prysmian* Part Number	# of Tubes	# of Ribbons/ TubeTubes	# of Fibers/ Tube	Buffer Tube OD		Cable OD		Approx. Cable Weight		Max. Reel Length	
						Inches	mm	Inches	mm	lb/kft	kg/km	feet	meters
Dielectric													
432	432	RLF1JKT-12-AA-432-BB	6	6	72	0.21	5.4	0.77	19.5	155	288	28,036	8,545
576-864	864	RLF1JKT-12-AA-864-BB	6	12	144	0.25	6.4	0.86	21.9	201	300	25,175	7,673
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	RLF1AIJ-12-AA-432-BB	6	6	72	0.21	5.4	0.90	22.9	235	349	26,625	8,115
576-864	864	RLF1AIJ-12-AA-864-BB	6	12	144	0.25	6.4	1.00	25.3	300	445	23,472	7,154
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

1 LENGTH MARKINGS	2 PRODUCT FAMILY	3 CONSTRUCTION	4 FIBER GROUPING	5 FIBER TYPE	6 FIBER COUNT	7 FIBER GRADE
F	RLF	1JKT	12	B1	1728	E1

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) 1AIJ = Single Corrugated Steel Armor Single Jacket (432-864f) 1A2J = Single Corrugated Steel Armor Double Jacket (1152-1728f)
4 FIBER GROUPING	12 = 12f per ribbon

FIBER INFORMATION	
5 FIBER TYPE	SINGLE-MODE B1 = 250µm Bend-Insensitive Single-Mode (ITU G.657.A1 & G.652.D)
6 FIBER COUNT	432 to 1728 fibers
7 FIBER GRADE	SINGLE-MODE Attenuation (dB/km) Wavelength (nm) Fiber Type E1 = 0.40/0.40/0.30 * 1310/1383/1550 B1

* 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.

