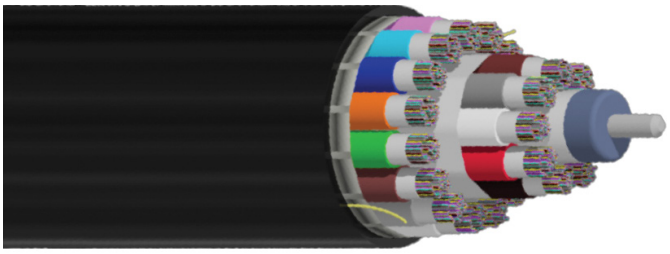
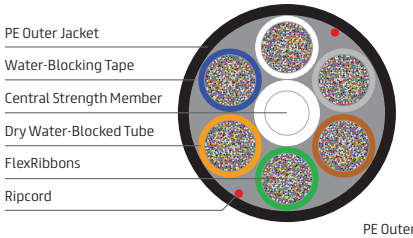
MassLink™ with 200 µm Fiber FlexRibbon™ Technology

Ultra compact ribbon design for access or data center applications
576 to 6912 Fiber Designs

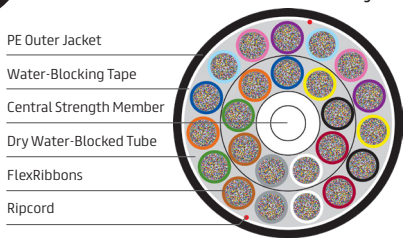
Prysmian



576-864 & 1152-1728 Fiber Design



3456 & 6912 Fiber Design



OVERVIEW

MassLink™ with FlexRibbon™ Technology provides an ultracompact outside plant cable design that contains up to 6912 bend insensitive fibers. By using FlexRibbon technology, ribbons are rolled up and packed together in small diameter 144 and 288 fiber sub units. While FlexRibbon™ provides high packing density, these 200 µm fiber ribbons still provide the advantages of mass fusion splicing.

FEATURES AND BENEFITS

Ultra Compact Design

- FlexRibbons™ are rolled up into compact 144 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
- These designs can be installed in smaller ducts than conventional flat ribbon which maximizes 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 200 µm coated bend-insensitive fiber (ITU G657.A1)

Route-able Tubes vs Compact Cable

- The RLFW1JKT 864 and 1728f designs are made with larger route-able tubes. The tubes are made larger in order to be more robust and not kink during routing
- The remaining designs are made with smaller, more condensed tubes to provide a more compact cable, so the tube can not be routed

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**	
	576 to 1728f	3456 & 6912f	576 to 1728f	3456 & 6912f
Operation	-30 to +70	-20 to +70	-22 to +158	-4 to +158
Installation	-20 to +60		-4 to +140	
Storage/Shipping	-40 to +70		-40 to +158	

CABLE BENDING

Fiber Count	576-864	1152-1728	3456	6912
Minimum Bend Diameter (Diameter = Radius x 2)				
Installation: Wheel/Capstan	31 in (78 cm)	39 in (100 cm)	49 in (124 cm)	50 in (127 cm)
Long Term: Coil/Slack/Bend	16 in (41 cm)	21 in (52 cm)	26 in (65 cm)	32 in (82 cm)
Minimum Bend Radius (Diameter = Radius x 2)				
Installation: Wheel/Capstan	20 x Cable OD			16 x Cable OD
Long Term: Coil/Slack/Bend	10 x Cable OD			
Duct Size / % Fill	1"/ 77%	1.25"/ 78%	1½"/ 81%	2"/ 77%

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TLS-DS-A-310-0823

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576 to 6912 Fiber Designs

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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	

Fiber Count Range	Recommended Fiber Count	Recommended Prysmian* Part Number	# of Tubes	# of Ribbons/ Tube	# of Fibers/ Tube	Buffer Tube OD		Cable OD		Approx. Cable Weight		Max. Reel Length	
						Inches	mm	Inches	mm	lb/kft	kg/km	feet	meters
576-864	864	RLFW1JKT-12-AA-864-BB	6	12	144	0.22	5.5	0.77	19.5	164	245	31,824	9,700
1152-1728	1728	RLFW1JKT-12-AA-1728-BB	6	24	288	0.28	7.2	0.98	24.9	249	370	19,685	6,000
3456	3456	RL2F1JKT-12-AA-3456-BB	24	12	144	0.18	4.5	1.22	30.9	422	628	11,631	3,545
6912	6912	RLF1JKT-12-AA-6912-BB	24	24	288	0.24	6.2	1.53	38.9	634	943	10,050	3,063

* Where AA equals glass type and BB equals attenuation

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: 6912 count all-dielectric MassLink with FlexRibbon Technology with G657.A1 bend insensitive fiber. (printed in feet)

1 LENGTH MARKINGS	2 PRODUCT FAMILY	3 CONSTRUCTION	4 FIBER GROUPING	5 FIBER TYPE	6 FIBER COUNT
F	– RLF	1JKT	– 12	– 21	– 6912

PART NUMBER CONSTRUCTION

1 LENGTH MARKINGS

F = Feet or M = Meters

2 PRODUCT FAMILY

RLF = MassLink with FlexRibbon Technology (6912f)
RL2F = MassLink with FlexRibbon Technology (3456f)
RLFW = MassLink with FlexRibbon Technology (576-1728f)

3 CONSTRUCTION

1JKT = Single Jacket

4 FIBER GROUPING

12 = 12f per ribbon

FIBER INFORMATION

5 FIBER TYPE

SINGLE-MODE

21 = Bend Insensitive 200 µm Single-Mode (ITU G.657.A1 & G.652.D)
2X = BBXS™ Bend Insensitive 200 µm Single- Mode (ITU G.657.A2 & G.652.D)

6 FIBER COUNT

576 to 6912 fibers

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.

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