

864 and 1728F MassLink™ Indoor/Outdoor Riser & LSZH CPR with FlexRibbon™ 200 µm Fibers

Prysmian



Outer Jacket

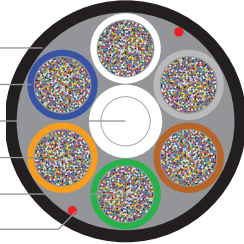
Water-Blocking Tape

Central Strength Member

Dry Water-Blocked Tube

Flex Ribbons

Ripcord



OVERVIEW

MassLink™ with FlexRibbon™ Technology provides an ultracompact indoor/outdoor cable design that contains up to 1728 bend insensitive fibers. By using FlexRibbon technology, ribbons are rolled up and packed together in small diameter 144 or 288 fiber tubes. 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 or 288 fiber sub units for easier routing
- Significantly smaller diameter and lighter weight cables allow for easier installation and the use of smaller ducts
- A 30% smaller diameter (52% volume reduction) over traditional indoor/outdoor ribbon designs

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/A2)

Performance

- Uses full dry water blocking technology in the tubes and cable core for easy closure preparation and termination
- Tested in accordance with ICEA 696 and with relevant EIA/TIA-455 series FOTPs for fiber optic cables

Route-able Tubes vs More Compact Cable

- The RRZIOFWK and RRLFWK 1728f 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

Flame Retardant Construction

- Riser designs are tested according to UL1666 and UL1685 and are list as OFNR-FT4 and OFNG
- LSZH CPR designs comply with UL1666 and 1685, and are listed as OFNR-ST1, OFNG, FT4-ST1, CPR Cca-s1b,d0,a1 for 864f, and B2ca-s1b,d0,a1 for 1728f

Registered Supplier

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

PERFORMANCE SPECIFICATIONS

Fiber Count	864		1728	
Tensile Rating	N	lbf	N	lbf
Installation	2,700	600	2,700	600
Residual	800	180	800	180
Crush Resistance	N/cm	(lbf/in)	N/cm	(lbf/in)
OFNR/FT4	220/80 (125/46)		220/110 (125/63)	
LSZH	220/110 (125/63)		220/110 (125/63)	
Temperature Ratings	°C		°F	
Operation	-30 to +70		-22 to +158	
Installation	-10 to +60		+14 to +140	
Storage/Shipping	-40 to +70		-40 to +158	
Duct Size/% Fill				
OFNR/FT4	1" / 73%	1¼" / 58%	1½" / 68%	
LSZH/CPR/OFNR/FT4	1" / 74%	1¼" / 59%	1½" / 73%	

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INDOOR/OUTDOOR

MassLink™ Indoor/Outdoor with FlexRibbon™ | OFNR/FT4

Flame Rating	Fiber Count	Recommended Prysmian* Part Number	Number of Tubes	Ribbons per Tube	Fibers per Tube	Buffer Tube OD		Cable OD		Approx. Cable Weight		Max. Reel Length	
						Inches	mm	Inches	mm	lb/kft	kg/km	feet	meters
OFNR/FT4	864	RRIOLFK-12-AA-864-BB	6	12	144	0.19	4.7	0.73	18.5	201	299	33,047	10,073
OFNR/FT4	1728	RRIOLFK-12-AA-1728-BB	6	24	288	0.28	7.2	1.02	26.0	347	517	18,000	5,500

MassLink™ Indoor/Outdoor with FlexRibbon™ | LSZH-CPR and OFNR/FT4-ST1

Flame Rating	Fiber Count	Recommended Prysmian* Part Number	Number of Tubes	Ribbons per Tube	Fibers per Tube	Buffer Tube OD		Cable OD		Approx. Cable Weight		Max. Reel Length	
						Inches	mm	Inches	mm	lb/kft	kg/km	feet	meters
Cca/OFNR-ST1/FT4-ST1	864	RRZIOLFK-12-AA-864-BB	6	12	144	0.19	4.7	0.74	18.9	207	309	34,120	10,400
B2ca/OFNR-ST1/FT4-ST1	1728	RRZIOLFWK-12-AA-1728-BB	6	24	288	0.29	7.2	1.09	27.8	421	626	15,748	4,800

INDOOR ONLY

MassLink™ Indoor Only with FlexRibbon™ | OFNR/FT4

Flame Rating	Fiber Count	Recommended Prysmian** Part Number	Number of Tubes	Ribbons per Tube	Fibers per Tube	Buffer Tube OD		Cable OD		Approx. Cable Weight		Max. Reel Length	
						Inches	mm	Inches	mm	lb/kft	kg/km	feet	meters
OFNR/FT4	864	RRLFK-12-AA-864-BB	6	12	144	0.19	4.7	0.73	18.5	201	299	33,047	10,073
OFNR/FT4	1728	RRLFK-12-AA-1728-BB	6	24	288	0.28	7.2	1.02	26.0	347	517	18,000	5,500

MassLink™ Indoor Only with FlexRibbon™ | LSZH-CPR and OFNR/FT4-ST1

Flame Rating	Fiber Count	Recommended Prysmian* Part Number	Number of Tubes	Ribbons per Tube	Fibers per Tube	Buffer Tube OD		Cable OD		Approx. Cable Weight		Max. Reel Length	
						Inches	mm	Inches	mm	lb/kft	kg/km	feet	meters
Cca/OFNR-ST1/FT4-ST1	864	RRZLFK-12-AA-864-BB	6	12	144	0.19	4.7	0.74	18.9	207	309	34,120	10,400
B2ca/OFNR-ST1/FT4-ST1	1728	RRZLFWK-12-AA-1728-BB	6	24	288	0.29	7.2	1.09	27.8	421	626	15,748	4,800

*Where AA equals glass type and BB equals attenuation code

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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	■ ■ ■ ■

CABLE BENDING				
Fiber Count	864		1728	
Flame Rating	OFNR/FT4	LSZH/CPR/ OFNR-LS/ FT4-ST1	OFNR/FT4	LSZH/CPR/ OFNR-FT1/ FT4-ST1
Minimum Bend Diameter (Diameter = Radius x 2)				
Installation: Wheel/Capstan	29in (74cm)	30in (76cm)	42in (108cm)	44in (111cm)
Long Term: Coil/Slack/Bend	15in (39cm)	16in (38cm)	21in (55cm)	23in (58cm)
Minimum Bend Diameter (Diameter = Radius x 2)				
Installation: Wheel/Capstan Diameter	40 x Cable OD			
Long Term: Coil/Slack/Bend Diameter	20 x Cable OD			

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: 1728 count all-dielectric MassLink with FlexRibbon Technology with G657.A1 bend insensitive fiber (printed in feet)

1	LENGTH MARKINGS	2	PRODUCT FAMILY	3	FIBER GROUPING	4	FIBER TYPE	5	FIBER COUNT
	F		RRIOLFK		12		21		1728

PART NUMBER CONSTRUCTION	
1	LENGTH MARKINGS
F = Feet or M = Meters	
2	PRODUCT FAMILY & CONSTRUCTION
RRIOLFK = MassLink Indoor/Outdoor Riser FlexRibbon (Black Jacket)	
RRZIOFWK = MassLink Indoor/Outdoor CPR & Riser FlexRibbon (Black Jacket)	
RRLFK = MassLink Indoor Only Riser FlexRibbon (Yellow Jacket)	
RRZLFWK = MassLink Indoor Only CPR & Riser FlexRibbon (Yellow Jacket)	
3	FIBER GROUPING
12 = 12f per ribbon	

FIBER INFORMATION	
4	FIBER TYPE
SINGLE-MODE	
21 = Bend Insensitive 200 µm Single-Mode (ITU G.657.A1 & G.652.D)	
22 = 200 µm Bend-Insensitive Single-Mode (ITU G.657.A2 & G.652.D)	
5	FIBER COUNT
864 and 1728 fibers	

Note: 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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