

576-864F MassLink™ Indoor/Outdoor Riser with FlexRibbon™ 250 μm Fibers



Overview

MassLink™ with FlexRibbon™ Technology provides an ultra-compact indoor/outdoor cable design that contains 864 bend insensitive fibers. By using FlexRibbon technology, ribbons are rolled up and packed together in small diameter 144 fiber tubes. While FlexRibbon™ provides high packing density, these 250 μm fiber ribbons still provide the advantages of mass fusion splicing.

Ultra Compact Design

- FlexRibbons™ are rolled up into compact 144 fiber sub units for easier routing
- Significantly smaller diameter and lighter weight cables allow for easier installation and the use of smaller ducts
- A 23% smaller diameter 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 250 μm coated bend-insensitive fiber (ITU G657. A1 or A2)

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 and ICEA 696 and with relevant EIA/TIA-455 series FOTPs for fiber optic cables

Flame Retardant Construction

- Riser design complies with UL 1666 and is OFNR and OFN-FT4 rated

Registered Supplier

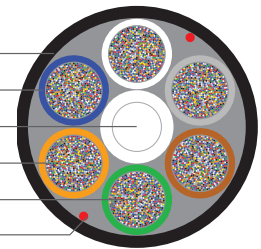
- ISO 9001, ISO 14001, TL 9000, and OHSAS 18001

Prysmian Group

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- Outer Jacket
- Water-Blocking Tape
- Central Strength Member
- Dry Water-Blocked Tube
- Flex Ribbons
- Ripcord



PERFORMANCE SPECIFICATIONS

Minimum Bend Diameter (Diameter = Radius x 2)

Wheel/Capstan	38 inches (96 cm)
Coil/Bend	20 inches (50 cm)

Minimum Bend Radius

Installation/Dynamic	20 x Cable OD
Long Term/Static	10 x Cable OD

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	-10 to +60	-14 to +140
Storage/Shipping	-40 to +70	-40 to +158

NOMINAL DESIGN PARAMETERS

Fiber Count	576-864	
Tube Positions	6	
Number of Ribbons/Tube	12	
Buffer Tube OD	(mm)	6.4
	(inches)	0.25
Cable OD	(mm)	23.6
	(inches)	0.93
Weight	(kg/km)	425
	(lb/kft)	286
Maximum Length	(m)	7,246
	(ft)	23,774
Fiber / Sub Unit	6 Units x 144f / Unit	
1¼" Conduit Fill	%	74

RIBBON COLOR CODE	
Ribbon #	Marking
1	
2	
3	
4	
5	■
6	■
7	■
8	■
9	■
10	■ ■
11	■ ■
12	■ ■

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 in the example.

Example: 864 count all-dielectric MassLink with FlexRibbon Technology with G657.A1 bend insensitive fiber.



PART NUMBER CONSTRUCTION	
1	LENGTH MARKINGS F = Feet or M = Meters
2	PRODUCT FAMILY & CONSTRUCTION RRIO LFK = MassLink™ Indoor/Outdoor Riser FlexRibbon
3	FIBER GROUPING 12 = 12f FlexRibbons

Note: Please refer to the Fiber Code Addendum for additional fiber options, or contact us for help.

FIBER INFORMATION							
4	FIBER TYPE						
	SINGLE-MODE						
	B1 = Bend Insensitive Single-Mode (ITU G.657.A1 & G.652.D)						
	CU = Corning™ Ultra Single-Mode (ITU G.657.A1 & G.652.D)						
	B2 = Bend-Insensitive Single-Mode (ITU G.657.A2 & .B2, & G.652.D)						
5	FIBER COUNT						
	576-864 fibers						
6	FIBER GRADE						
	<table border="1"> <thead> <tr> <th>SINGLE-MODE Attenuation (dB/km)</th> <th>Wavelength (nm)</th> <th>Fiber Type</th> </tr> </thead> <tbody> <tr> <td>E1 = 0.40/0.40/0.30</td> <td>1310/1383/1550</td> <td>B1, CU, or B2</td> </tr> </tbody> </table>	SINGLE-MODE Attenuation (dB/km)	Wavelength (nm)	Fiber Type	E1 = 0.40/0.40/0.30	1310/1383/1550	B1, CU, or B2
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