

576-864F MassLink™ with FlexRibbon™ Technology 250 μm Fibers



Overview

MassLink™ with FlexRibbon™ Technology provides a compact outside plant cable design that contains 576 to 864 bend insensitive fibers. By using FlexRibbon technology, ribbons are rolled up and packed together in small diameter 144 fiber sub units. 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
- 18% smaller diameter (33% volume reduction) over traditional 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 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

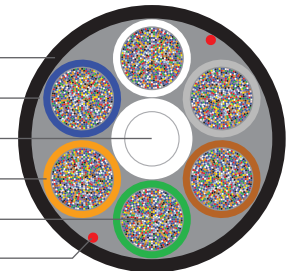
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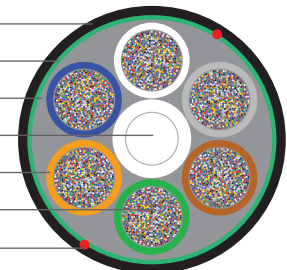
Dielectric Design

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



Single Armor Single Jacket Design

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



PERFORMANCE SPECIFICATIONS

Dielectric Minimum Bend Diameter (Diameter = Radius x 2)

Installation	Wheel/Capstan	34 inches (88 cm)
Long Term	Coil/Slack/Bend	18 inches (46 cm)

Armored Minimum Bend Diameter (Diameter = Radius x 2)

Installation	Wheel/Capstan	40 inches (101 cm)
Long Term	Coil/Slack/Bend	21 inches (53 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	-30 to +60	-22 to +140
Storage/Shipping	-40 to +70	-40 to +158

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

NOMINAL DESIGN PARAMETERS		
Fiber Count		576-864
Tube Positions		6
Number of Ribbons/Tube		12
Fiber / Sub Unit	6 Units x 144f / Unit	
Buffer Tube OD	(mm)	6.4
	(inches)	0.25
Dielectric (1JKT) Cable OD	(mm)	21.9
	(inches)	0.86
Dielectric (1JKT) Weight	(kg/km)	300
	(lb/kft)	201
Dielectric (1JKT) Maximum Length	(m)	5,300
	(ft)	17,390
Dielectric Duct Size / % Fill	1½" / 57% 1¼" / 69%	
Single Armor Single Jacket (1A1J) Cable OD	(mm)	25.3
	(inches)	1.00
Single Armor Single Jacket (1A1J) Weight	(kg/km)	445
	(lb/kft)	300
Single Armor Single Jacket (1A1J) Maximum Length	(m)	4,680
	(ft)	15,360
Single Armor Single Jacket Duct Size / % Fill	1½" / 67% 1¼" / 80%	

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 and 0.40/0.40/0.30 dB/km attenuation.

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	864	E1

PART NUMBER CONSTRUCTION	
1 LENGTH MARKINGS	F = Feet or M = Meters
2 PRODUCT FAMILY	RLF = MassLink with FlexRibbon Technology
3 CONSTRUCTION	1JKT = Single Jacket 1A1J = Single Armor Single Jacket
4 FIBER GROUPING	12 = 12f Flex-Ribbons

FIBER INFORMATION		
5 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)	
6 FIBER COUNT	576-864 fibers	
7 FIBER GRADE	SINGLE-MODE	
	Attenuation (dB/km)	Wavelength (nm) Fiber Type
	E1 = 0.40/0.40/0.30	1310/1383/1550 B1, CU, or B2

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

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