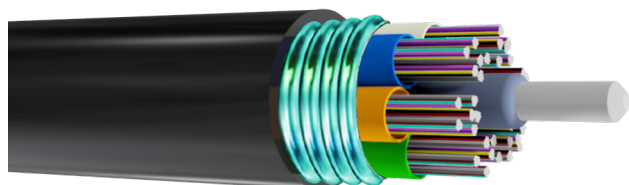


432f MassLink™ with FlexRibbon™ Technology 250 μm Fibers



Overview

MassLink™ with FlexRibbon™ Technology provides an ultra-compact outside plant cable design that contains 432 bend insensitive fibers. By using FlexRibbon technology, ribbons are rolled up and packed together in small diameter 72 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 72 fiber sub units for easier routing
- Significantly smaller diameter and lighter weight cables allow for easier installation and the use of smaller ducts
- 21% smaller diameter (38% 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 um coated bend-insensitive fiber (ITU G657.A1 or A2)
- Single armor, single jacket available

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

Outer Jacket

Armor

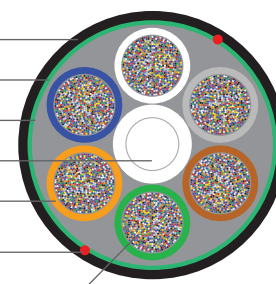
Water-Blocking Tape

Central Strength Member

Dry Water-Blocked Tube

Ripcord

Flex Ribbons



Registered Supplier

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

PERFORMANCE SPECIFICATIONS

Minimum Bend Diameter (Diameter = Radius x 2)

| Installation | Wheel/Capstan | 35 Inches (89 cm) |
|--------------|-----------------|-------------------|
| Long Term | Coil/Slack/Bend | 19 Inches (48 cm) |

Minimum Bend Radius

| Dynamic | 20 x Cable OD |
|---------|---------------|
| 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 |

NOMINAL DESIGN PARAMETERS

| | | |
|---|-----------------------|--------|
| Fiber Count | 432 | |
| Tube Positions | 6 | |
| Number of Ribbons/Tube | 6 | |
| Fiber / Sub Unit | 6 Units x 72f / Unit | |
| Buffer Tube OD | (mm) | 5.4 |
| | (inches) | 0.21 |
| Single Armor Single Jacket (1A1) Cable OD | (mm) | 22.3 |
| | (inches) | 0.88 |
| Single Armor Single Jacket (1A1) Cable Weight | (kg/km) | 349 |
| | (lb/kft) | 235 |
| Single Armor Single Jacket (1A1) Cable Maximum Length | (m) | 6,025 |
| | (ft) | 19,770 |
| Single Armor Single Jacket (1A1) Duct Size / % Fill | 1½" / 59% 1¼" / 70% | |

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| RIBBON COLOR CODE | |
|-------------------|---------|
| Ribbon # | Marking |
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | ■ |
| 6 | ■ |

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: 432 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 | 1A1J | 12 | B1 | 432 | E1 |

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

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

| 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 |
| 432 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 |