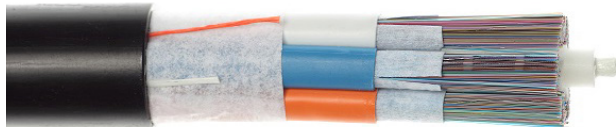


MassLink™ with 250 μm Fiber FlexRibbon™ Technology

432 to 1728 Fiber Designs



Overview

MassLink™ with FlexRibbon™ Technology provides an ultra-compact outside plant cable design that contains up to 1728 bend insensitive fibers. By using FlexRibbon technology, ribbons are rolled up and packed together in small diameter 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 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
- With as much as 21% smaller diameter (38% volume reduction) over traditional ribbon designs, maximizing 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 250 μm coated bend-insensitive fiber (ITU G657.A1)

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

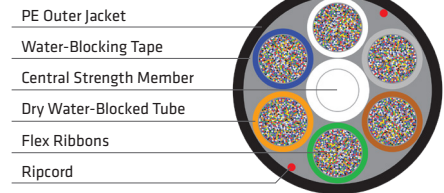
- ISO 9001, ISO 14001, TL 9000, and OHSAS 18001

Prysmian Group

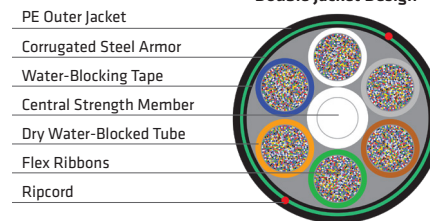
4 Tesseneer Drive | Highland Heights KY 41076

+1-800-669-0808 | website: na.prysmiangroup.com/telecom

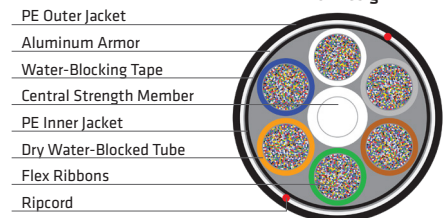
Dielectric Design



Single Armor Double Jacket Design



Aluminum Interlock Armor Design



PERFORMANCE SPECIFICATIONS

| | N | lbf |
|----------------------------|-------------|---------------|
| Tensile Rating | | |
| 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 |

CABLE BENDING

| Fiber Count | 432 | | 576-864 | | 1152-1728 | | |
|--|---------------|---------------|---------------|----------------|----------------|----------------|----------------|
| | Dielectric | Armored | Dielectric | Armored | Dielectric | Armored | Interlock |
| Minimum Bend Diameter (Diameter = Radius x 2) | | | | | | | |
| Installation: | 30 in (76 cm) | 35 in (89 cm) | 34 in (88 cm) | 40 in (101 cm) | 40 in (100 cm) | 47 in (120 cm) | 54 in (136 cm) |
| Wheel/Capstan | | | | | | | |
| Long Term: | 16 in (40 cm) | 18 in (47 cm) | 18 in (46 cm) | 21 in (53 cm) | 20 in (50 cm) | 25 in (63 cm) | 28 in (72 cm) |
| Coil/Slack/Bend | | | | | | | |
| Minimum Bend Radius (Diameter = Radius x 2) | | | | | | | |
| Installation: | 20 x Cable OD | | | | | | |
| Wheel/Capstan | | | | | | | |
| Long Term: | 10 x Cable OD | | | | | | |
| Coil/Slack/Bend | | | | | | | |

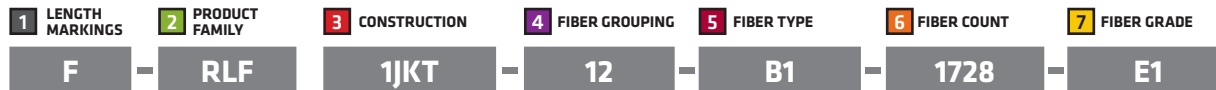
| RIBBON COLOR CODE | | | |
|-------------------|---------|----------|-------------------------------|
| Ribbon # | Marking | Ribbon # | Marking |
| 1 | | 13 | ■ ■ ■ ■ ■ |
| 2 | | 14 | ■ ■ ■ ■ ■ ■ |
| 3 | | 15 | ■ ■ ■ ■ ■ ■ ■ |
| 4 | | 16 | ■ ■ ■ ■ ■ ■ ■ ■ |
| 5 | ■ | 17 | ■ ■ ■ ■ ■ ■ ■ ■ ■ |
| 6 | ■ | 18 | ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ |
| 7 | ■ | 19 | ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ |
| 8 | ■ | 20 | ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ |
| 9 | ■ | 21 | ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ |
| 10 | ■ ■ | 22 | ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ |
| 11 | ■ ■ | 23 | ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ |
| 12 | ■ ■ | 24 | ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ |

| NOMINAL DESIGN PARAMETERS | | | | | | | | |
|---------------------------|--------|------------|-------------|-------------|-------------|-------------|---------|-----------|
| Fiber Count | | 432 | | 576-864 | | 1152-1728 | | |
| Number of Tubes | | 6 | | 6 | | 6 | | |
| Number of Ribbons/Tube | | 6 | | 12 | | 24 | | |
| Fibers/Tube | | 72 | | 144 | | 288 | | |
| Buffer Tube OD | mm | 5.4 | | 6.4 | | 7.4 | | |
| | inches | 0.21 | | 0.25 | | 0.29 | | |
| Jacket Design | | Dielectric | Armored | Dielectric | Armored | Dielectric | Armored | Interlock |
| Cable OD | mm | 18.9 | 22.3 | 21.9 | 25.3 | 24.9 | 30.1 | 34.1 |
| | Inches | 0.74 | 0.88 | 0.86 | 1.00 | 0.98 | 1.19 | 1.34 |
| Cable Weight | kg/km | 288 | 349 | 300 | 445 | 379 | 627 | 844 |
| | lb/kft | 155 | 235 | 201 | 300 | 254 | 421 | 567 |
| Maximum Length | m | 8,545 | 8,115 | 7,673 | 7,154 | 5,731 | 5,054 | 2,715 |
| | ft | 28,036 | 26,625 | 25,175 | 23,472 | 18,206 | 16,582 | 8,910 |
| Duct Size/ % Fill | in/ % | 1"/ 74% | 1 1/4"/ 70% | 1 1/2"/ 69% | 1 3/4"/ 80% | 1 7/8"/ 78% | 2"/ 79% | NA |

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 and 0.40/0.40/0.30 dB/km attenuation.



| PART NUMBER CONSTRUCTION | |
|--------------------------|---|
| 1 | LENGTH MARKINGS F = Feet or M = Meters |
| 2 | PRODUCT FAMILY RLF = MassLink with FlexRibbon Technology |
| 3 | CONSTRUCTION 1JKT = All Dielectric Single Jacket (432-1728f) 1A1] = Single Corrugated Steel Armor Single Jacket (432-864f) 1A2] = Single Corrugated Steel Armor Double Jacket (1152-1728f) 1JKT AJ = Single Jacket with Aluminum Interlock Armor & Outer Jacket (1152-1728f) |
| 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) | |
| 6 | FIBER COUNT 432 to 1728 fibers | |
| 7 | FIBER GRADE SINGLE-MODE Attenuation (dB/km) Wavelength (nm) Fiber Type E1 = 0.40/0.40/0.30 1310/1383/1550 B1 | |

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