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 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

Performance Specifications

<table>
<thead>
<tr>
<th>Minimum Bend Diameter (Diameter = Radius x 2)</th>
<th>Installation</th>
<th>Wheel/Capstan</th>
<th>35 Inches (89 cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long Term</td>
<td>Coil/Slack/Bend</td>
<td>19 Inches (48 cm)</td>
<td></td>
</tr>
<tr>
<td>Dynamic</td>
<td>20 x Cable OD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Static</td>
<td>10 x Cable OD</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tensile Rating</th>
<th>N</th>
<th>lbf</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation</td>
<td>2700</td>
<td>600</td>
</tr>
<tr>
<td>Residual</td>
<td>800</td>
<td>180</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Crush Resistance</th>
<th>N/cm</th>
<th>lbf/in</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short/ Long Term</td>
<td>220/110</td>
<td>125/63</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Temperature Ratings</th>
<th>°C</th>
<th>°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation</td>
<td>-30 to +70</td>
<td>-22 to +158</td>
</tr>
<tr>
<td>Installation</td>
<td>-30 to +60</td>
<td>-22 to +140</td>
</tr>
<tr>
<td>Storage/Shipping</td>
<td>-40 to +70</td>
<td>-40 to +158</td>
</tr>
</tbody>
</table>

Nominal Design Parameters

<table>
<thead>
<tr>
<th>Fiber Count</th>
<th>432</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tube Positions</td>
<td>6</td>
</tr>
<tr>
<td>Number of Ribbons/Tube</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fiber / Sub Unit</th>
<th>6 Units x 72f / Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1A1J Cable OD</td>
<td>(mm) 22.3 (inches) 0.88</td>
</tr>
<tr>
<td>1A1J Cable Weight</td>
<td>(kg/km) 349 (lb/ft) 235</td>
</tr>
<tr>
<td>1A1J Cable Minimum Length</td>
<td>(m) 6.025 (ft) 19.770</td>
</tr>
<tr>
<td>1A1J Duct Size / % Fill</td>
<td>1½” / 59%</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>LENGTH MARKINGS</th>
<th>PRODUCT FAMILY</th>
<th>CONSTRUCTION</th>
<th>FIBER GROUPING</th>
<th>FIBER TYPE</th>
<th>FIBER COUNT</th>
<th>FIBER GRADE</th>
</tr>
</thead>
<tbody>
<tr>
<td>F = Feet or M = Meters</td>
<td>RLF = MassLink with FlexRibbon Technology</td>
<td>1A1J = Single Armor Single Jacket</td>
<td>12 = 12f Flex-Ribbons</td>
<td>B1</td>
<td>432 fibers</td>
<td>E1</td>
</tr>
</tbody>
</table>

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