Remex33-Series Interlock Armor I/O Tight Buffer Distribution Fiber Optic Cable

Cable Cross Section

(Representation of a standard 12 fiber construction)

Scope
This document establishes the specification requirements for an indoor/outdoor distribution armored fiber optic cable. This cable construction consists of a distribution tight-buffer design with an interlocking armor and a plenum rated jacket.

Applications
Outdoors direct burial, Indoors in the plenum space, Tray Installations

Applicable Documents
- TIA/EIA FOTP Standards 455
- Color Coding of Fiber Optic Cables TIA/EIA-598
- UL 910
- GR-409-CORE
- Compliant with ANSI/TIA-568-C.3 standard

Cable Construction Details
- Tight Buffered Fiber
  Dimension: 900µm, Nominal
- Tight Buffer Color Code:
  As per TIA/EIA-598 standard or per customer requirement
- Cable Strength:
  Water swellable aramid yarns are pulled in with tight-buffered fibers under the inner sheath.
- Inner Sheath: UV Resistant Remguard Plenum Rated Polymer
- Armor: Aluminum Interlocking Armor
- Overall Sheath: UV Resistant Remguard Plenum Rated Polymer

Continued
### Nominal Cable Dimensions & Weights

<table>
<thead>
<tr>
<th>Remee Products Part Number</th>
<th>Number of Fibers</th>
<th>Cable OD in (mm)</th>
<th>Weight lb/1000ft (kg/km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>REMEX33002XXXXIALR</td>
<td>2</td>
<td>0.605 (15.4)</td>
<td>124 (185)</td>
</tr>
<tr>
<td>REMEX33004XXXXIALR</td>
<td>4</td>
<td>0.605 (15.4)</td>
<td>126 (188)</td>
</tr>
<tr>
<td>REMEX33006XXXXIALR</td>
<td>6</td>
<td>0.605 (15.4)</td>
<td>130 (193)</td>
</tr>
<tr>
<td>REMEX33008XXXXIALR</td>
<td>8</td>
<td>0.605 (15.4)</td>
<td>132 (196)</td>
</tr>
<tr>
<td>REMEX33012XXXXIALR</td>
<td>12</td>
<td>0.605 (15.4)</td>
<td>138 (205)</td>
</tr>
<tr>
<td>REMEX33024XXXXIALR-T</td>
<td>24</td>
<td>0.638 (16.2)</td>
<td>149 (222)</td>
</tr>
</tbody>
</table>

*Cables printed in meters will have a “-MR” suffix on the part number.

### Jacket Color

<table>
<thead>
<tr>
<th>Designation</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>Black</td>
</tr>
<tr>
<td>Y</td>
<td>Yellow</td>
</tr>
<tr>
<td>Z</td>
<td>Orange</td>
</tr>
<tr>
<td>A</td>
<td>Aqua</td>
</tr>
<tr>
<td>M</td>
<td>Violet</td>
</tr>
</tbody>
</table>

### Fiber Type (P/N)

<table>
<thead>
<tr>
<th>Fiber Type (P/N)</th>
<th>Maximum Attenuation dB/km</th>
<th>Overfill Launch Min Bandwidth (MHz-km)</th>
<th>EMc (MHz-km)</th>
<th>Gigabit Ethernet Minimum Link Distance (Meters)</th>
<th>10 Gigabit Ethernet Minimum Link Distance (Meters)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>850 nm 1300 nm 1310 nm 1550 nm</td>
<td>850 nm 1300 nm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>62.5µm OM1 1GIG (22J)</td>
<td>3.2 1.0 N/A N/A</td>
<td>200 600 N/A</td>
<td>N/A</td>
<td>300 550 32 -</td>
<td>-</td>
</tr>
<tr>
<td>50µm OM2 10GIG (12D)</td>
<td>3.0 1.0 N/A N/A</td>
<td>750 500 N/A</td>
<td>N/A</td>
<td>800 550 150 -</td>
<td>-</td>
</tr>
<tr>
<td>50µm OM3 10GIG (12N)</td>
<td>3.0 1.0 N/A N/A</td>
<td>1500 500 2000</td>
<td>1000 550 300 -</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>50µm OM4 10GIG (12V)</td>
<td>3.0 1.0 N/A N/A</td>
<td>3500 500 4700</td>
<td>1040 550 550 -</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>SM OS2 G.652.D (76K)</td>
<td>N/A N/A 0.40 0.30</td>
<td>N/A N/A N/A</td>
<td>N/A</td>
<td>N/A 5000 N/A 10000</td>
<td>N/A 10000</td>
</tr>
<tr>
<td>SM OS2 G.652.D (74K)</td>
<td>N/A N/A 0.35 0.25</td>
<td>N/A N/A N/A</td>
<td>N/A</td>
<td>N/A 5000 N/A 10000</td>
<td>N/A 10000</td>
</tr>
<tr>
<td>SM OS2 G.652.D/G.657.A1 BIF (76U)*</td>
<td>N/A N/A 0.40 0.30</td>
<td>N/A N/A N/A</td>
<td>N/A</td>
<td>N/A 5000 N/A 10000</td>
<td>N/A 10000</td>
</tr>
<tr>
<td>SM OS2 G.652.D/G.657.A2, B2 BIF (76F)**</td>
<td>N/A N/A 0.40 0.30</td>
<td>N/A N/A N/A</td>
<td>N/A</td>
<td>N/A 5000 N/A 10000</td>
<td>N/A 10000</td>
</tr>
</tbody>
</table>

* G.657.A1 (76U) Mandrel Radius of 10mm, 1 turn at 1550nm with an induced attenuation of ≤0.50dB

** G.657.A2,B2 (76F) Mandrel Radius of 7.5mm, 1 turn at 1550nm with an induced attenuation of ≤0.40dB

Please call the factory for all other fiber types.
Mechanical & Environmental Performance

Cable Without Armor

- Maximum Tensile Load
  - Installation: 2&4 fiber 1405N / 315lbf
  - 6&8 fiber 1610N / 362lbf
  - 12&24 fiber 2700N / 600lbf
  - Long Term: 2&4 fiber 455N / 102lbf
  - 6&8 fiber 535N / 120lbf
  - 12&24 fiber 600N / 135lbf

- Crush Resistance
  100 N/cm

- Impact Resistance (min.)
  25 Impacts

- Flexing ± 90° (min.)
  25 Cycles

- Temperature Rating
  - Operation: -20°C to +85°C
  - Installation: 0°C to +75°C
  - Storage: -40°C to +85°C

Cable With Armor

- Maximum Tensile Load
  600N / 150lbf

- Crush Resistance
  1000 N/cm

Warranty Information
All warranty information can be viewed at www.remee.com. This product is RoHS compliant and is directive 2002/95/EC. It is the sole responsibility of the user to have the most current specification. Specifications are subject to change without notice.

Preparation for Shipment
The cable shall be packaged to preclude the inducement of damage due to handling and transportation, and shall be in accordance with the best commercial practices available. Shipping containers shall be constructed as to eliminate any possible damage to the cables due to shipment.

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Spec Approval (Custom Designs Only)
Your signature constitutes that you have read and agreed to this specification sheet and upon confirmation of your order: this item may be non-cancelable and non-returnable.

Signature: _____________________ Date: ________________