**Part No:** REMEX11-XX-XXX-XIALA

**Issue Date:** 08/30/2018  
**Revision #:** 00

**REMEX11-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 armor distribution fiber optic cable. This cable construction consists of a distribution tight-buffer design with an interlocking armor and a plenum rated.

**Applications**

Outdoor direct burial, Aerial Lashed, Indoors in the riser space and Tray Installations

**Applicable Documents**

- TIA/EIA FOTP Standards 455
- Color Coding of Fiber Optic Cables TIA/EIA-598
- UL 1666
- 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 Riser Rated Polyvinyl Chloride
- **Armor:** Aluminum Interlocking Armor
- **Overall Sheath:** UV Resistant Riser Rated Polyvinyl Chloride

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>REMEX11002XXXXIALA</td>
<td>2</td>
<td>0.605(15.4)</td>
<td>125 (186)</td>
</tr>
<tr>
<td>REMEX11004XXXXIALA</td>
<td>4</td>
<td>0.605(15.4)</td>
<td>127 (189)</td>
</tr>
<tr>
<td>REMEX11006XXXXIALA</td>
<td>6</td>
<td>0.605(15.4)</td>
<td>130 (193)</td>
</tr>
<tr>
<td>REMEX11008XXXXIALA</td>
<td>8</td>
<td>0.605(15.4)</td>
<td>132 (196)</td>
</tr>
<tr>
<td>REMEX11012XXXXIALA</td>
<td>12</td>
<td>0.655(16.6)</td>
<td>152 (226)</td>
</tr>
<tr>
<td>REMEX11024XXXXIALA-T</td>
<td>24</td>
<td>0.638 (16.2)</td>
<td>135 (201)</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>EMBc (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</td>
<td>1300 nm</td>
<td>1310 nm</td>
<td>1550 nm</td>
<td>850 nm</td>
</tr>
<tr>
<td>62.5μm OM1 1GIG (22J)</td>
<td>3.2</td>
<td>1.0</td>
<td>N/A</td>
<td>N/A</td>
<td>200</td>
</tr>
<tr>
<td>50μm OM2 10GIG (12D)</td>
<td>3.0</td>
<td>1.0</td>
<td>N/A</td>
<td>N/A</td>
<td>750</td>
</tr>
<tr>
<td>50μm OM3 10GIG (12N)</td>
<td>3.0</td>
<td>1.0</td>
<td>N/A</td>
<td>N/A</td>
<td>1500</td>
</tr>
<tr>
<td>50μm OM4 10GIG (12V)</td>
<td>3.0</td>
<td>1.0</td>
<td>N/A</td>
<td>N/A</td>
<td>3500</td>
</tr>
<tr>
<td>SM OS2 G.652.D (76K)</td>
<td>N/A</td>
<td>N/A</td>
<td>0.40</td>
<td>0.30</td>
<td>N/A</td>
</tr>
<tr>
<td>SM OS2 G.652.B (74K)</td>
<td>N/A</td>
<td>N/A</td>
<td>0.35</td>
<td>0.25</td>
<td>N/A</td>
</tr>
<tr>
<td>SM OS2 G.652.D/G.657.A1 BIF (76U)*</td>
<td>N/A</td>
<td>N/A</td>
<td>0.40</td>
<td>0.30</td>
<td>N/A</td>
</tr>
<tr>
<td>SM OS2 G.652.D/G.657.A2, B2 BIF (76F)**</td>
<td>N/A</td>
<td>N/A</td>
<td>0.40</td>
<td>0.30</td>
<td>N/A</td>
</tr>
</tbody>
</table>

* G.657.A1 (76U) Mandrel Radius of 10mm, 1 turn at 1550nm with an induced attenuation of ≤0.35dB

** 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 / 315lb
  6&8 fiber 1610N / 362lb
  12&24 fiber 2700N / 600lb
  Long Term: 2&4 fiber 455N / 102lb
  6&8 fiber 535N / 120lb
  12&24 fiber 600N / 135lb

• Crush Resistance
  100 N/cm

• Impact Resistance (min.)
  25 Impacts

• Flexing ± 90° (min.)
  25 Cycles

• Temperature Rating
  Operation: -40°C to +85°C
  Installation: 0°C to +75°C
  Storage: -55°C to +85°C

Cable With Armor

• Maximum Tensile Load
  600N / 150lb

• Crush Resistance
  1000 N/cm

Warranty Information

All warranty information can be viewed at www.remeecom.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: ________________