11-Series Tight Buffer Indoor Riser Distribution Fiber Optic Cable

**Scope**
This document establishes the specification requirements for a distribution indoor all dielectric fiber optic cable. This cable construction consists of a distribution tight-buffer design with a riser rated PVC jacket.

**Applications**
Indoor 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/Sub Unit Color Code:**
  As per TIA/EIA-598 standard or per customer requirement
- **Sub Unit Construction:**
  Aramid yarns are pulled in with tight buffered fibers under a sub-unit jacket.
  Dielectric Central Strength Member:
  Epoxy Glass Rod (up-coated as required per construction)
- **Cable Core:**
  Sub-units and fillers are stranded around the CSM, using reverse oscillation.
  A non-wicking and non-hygroscopic tape is applied longitudinally over the cabled core with a 25% nominal overlap.
  Binder yarns are applied over the core tape.
- **Overall Sheath:** Riser Rated Polyvinyl Chloride
  A ripcord applied under the overall sheath.

(Representation of a standard 48 fiber construction)
### Nominal Cable Dimensions & Weights

<table>
<thead>
<tr>
<th>Remee Products Part Number</th>
<th>Number of Fibers</th>
<th>Number of Fibers Per Sub Unit</th>
<th>Cable OD in (mm)</th>
<th>Weight lb/1000ft (kg/km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-018-XXX-AXSFNF</td>
<td>18</td>
<td>6</td>
<td>0.546 (13.9)</td>
<td>104 (155)</td>
</tr>
<tr>
<td>11-024-XXX-AXSFNF</td>
<td>24</td>
<td>6</td>
<td>0.546 (13.9)</td>
<td>101 (151)</td>
</tr>
<tr>
<td>11-036-XXX-AXSFNF</td>
<td>36</td>
<td>6</td>
<td>0.666 (16.9)</td>
<td>155 (230)</td>
</tr>
<tr>
<td>11-048-XXX-AXSLNF</td>
<td>48</td>
<td>12</td>
<td>0.634 (16.1)</td>
<td>135 (201)</td>
</tr>
<tr>
<td>11-060-XXX-AXSLNF</td>
<td>60</td>
<td>12</td>
<td>0.696 (17.7)</td>
<td>165 (246)</td>
</tr>
<tr>
<td>11-072-XXX-AXSLNF</td>
<td>72</td>
<td>12</td>
<td>0.756 (19.2)</td>
<td>204 (304)</td>
</tr>
<tr>
<td>11-096-XXX-AXSLNF</td>
<td>96</td>
<td>12</td>
<td>0.926 (23.5)</td>
<td>316 (471)</td>
</tr>
<tr>
<td>11-144-XXX-AXSLNF</td>
<td>144</td>
<td>12</td>
<td>1.078 (27.4)</td>
<td>390 (580)</td>
</tr>
</tbody>
</table>

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

### 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>GEMBc (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>62.5µm OM1 1GIG (22J)</td>
<td>3.2 1.0 N/A N/A 200 600 N/A</td>
<td>300 550 32 -</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50µm OM2 10GIG (12D)</td>
<td>3.0 1.0 N/A N/A 750 500 N/A</td>
<td>800 550 150 -</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50µm OM3 10GIG (12N)</td>
<td>3.0 1.0 N/A N/A 1500 500 2000</td>
<td>1000 550 300 -</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50µm OM4 10GIG (12V)</td>
<td>3.0 1.0 N/A N/A 3500 500 4700</td>
<td>1040 550 550 -</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SM OS2 G.652.D (76K)</td>
<td>N/A N/A 0.40 0.30 N/A N/A</td>
<td>N/A 5000 N/A</td>
<td>N/A 10000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SM OS2 G.652.D (74K)</td>
<td>N/A N/A 0.35 0.25 N/A N/A</td>
<td>N/A 5000 N/A</td>
<td>N/A 10000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SM OS2 G.652.D/G.657.AI BIF (76U)*</td>
<td>N/A N/A 0.40 0.30 N/A N/A</td>
<td>N/A 5000 N/A</td>
<td>N/A 10000</td>
<td></td>
<td></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

- **Maximum Tensile Load**
  - Installation: 2700N / 607lbf
  - Long Term: 890N / 200lbf

- **Minimum Bending Radius**
  - Loaded: 20 x Diameter
  - Unloaded: 10 x Diameter

- **Crush Resistance**
  - 220 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

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.

Note: While Remee Products Corp. has made every reasonable effort to ensure the accuracy of the information in this document, Remee Products Corp. does not guarantee that it is error-free, nor does Remee Products Corp. make any other representation, warranty, or guarantee that the information is accurate, correct, reliable or current. Remee Products Corp. reserves the right to make any adjustments to the information contained herein at any time without notice. Remee Products Corp. expressly disclaims all implied warranties regarding the information contained herein, including but not limited to, any implied warranties of merchantability or fitness for particular purpose. The dimensions in this documents are for reference purposes only and are subject to change without notice.

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: _______________