32-Series Tight Buffered Breakout All Dielectric Plenum-Rated Indoor Fiber Optic Cable

**Cable Cross Section**

(Representation of a standard 12 fiber construction)

**Scope**

This document establishes the specification requirements for a plenum rated breakout, all dielectric fiber optic cable. This cable consists of a tight-buffer fiber in a sub-unit construction design.

**Applications**

Indoors in the plenum space and Tray Installations

**Applicable Documents**

- TIA/EIA FOTP Standards 455
- Color Coding of Fiber Optic Cables TIA/EIA-598
- UL 910
- 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:**
  - Plenum Rated Material
  - Aramid yarns are pulled in with tight buffered fibers under a sub-unit jacket.
  - Dimension: 2.4 mm
- **Dielectric Central Strength Member:**
  - Epoxy Glass Rod (up-coated as required per construction)
  - No Epoxy Rod on 12 fiber cable
- **Cable Core:**
  - The sub-units and fillers are stranded around the CSM where, where applicable.
  - A non-wicking and non-hygrosopic polypropylene tape is applied longitudinally with a nominal 25% overlap.
  - Binder yarns are applied over the core tape.
- **Overall Sheath:** Remguard Plenum Rated Polymer
  - A ripcord applied under the overall sheath.
## 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>32-002-XXX-RXSANP</td>
<td>2</td>
<td>1</td>
<td>0.313 (8.0)</td>
<td>41 (62)</td>
</tr>
<tr>
<td>32-004-XXX-RXSANP</td>
<td>4</td>
<td>1</td>
<td>0.313 (8.0)</td>
<td>40 (59)</td>
</tr>
<tr>
<td>32-006-XXX-RXSANP</td>
<td>6</td>
<td>1</td>
<td>0.381 (9.7)</td>
<td>63 (94)</td>
</tr>
<tr>
<td>32-008-XXX-RXSANP</td>
<td>8</td>
<td>1</td>
<td>0.433 (11.0)</td>
<td>77 (115)</td>
</tr>
<tr>
<td>32-012-XXX-RXNANP</td>
<td>12</td>
<td>1</td>
<td>0.473 (12.0)</td>
<td>86 (128)</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>4.0</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>4.0</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>4.0</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>4.0</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.D (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 ≤0.50dB

** 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**
  2&4 fiber 1200N / 270lbf  
  6 to 12 fiber 2700N / 600lbf  
  6 to 12 fiber 600N / 135lbf  

- **Minimum Bending Radius**
  
  **Loaded**
  20 x Diameter  

  **Unloaded**
  10 x Diameter  

- **Crush Resistance**
  100 N/cm  

- **Impact Resistance (min.)**
  25 Impacts  

- **Flexing ± 90° (min.)**
  25 Cycles  

- **Temperature Rating**
  
  **Operation**
  -0°C to +85°C  

  **Installation**
  0°C to +75°C  

  **Storage**
  -20°C to +85°C  

Prepare 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: __________________

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.