30-Series Simplex Tight Buffer Indoor Plenum Distribution Fiber Optic Cable

Cable Cross Section

Aramid Yarns

Tight Buffered Fibers

Outer Jacket

(Representation of a standard 1 fiber construction)

Scope
This document establishes the specification requirements for a general purpose indoor simplex fiber optic cable. This cable construction consists of a distribution tight-buffer design with a plenum rated jacket.

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
- 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:
  Aramid yarns are pulled in with tight buffered fiber
- Overall Sheath: 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>30-001-XXX-RXNONP</td>
<td>1</td>
<td>0.118 (3.0)</td>
<td>6 (9)</td>
</tr>
<tr>
<td>30-001-XXX-RXNOGP</td>
<td>1</td>
<td>0.080 (2.0)</td>
<td>3 (4)</td>
</tr>
</tbody>
</table>

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

### Fiber Type (P/N) Properties

<table>
<thead>
<tr>
<th>Fiber Type (P/N)</th>
<th>Maximum Attenuation dB/km</th>
<th>Overfill Launch Min Bandwidth ( MHz-km)</th>
<th>EMBr (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></td>
<td></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></td>
<td></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></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></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 N/A N/A</td>
<td></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 N/A N/A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SM OS2 G.652.D/G.657.A1 BIF (76U)*</td>
<td>N/A N/A 0.40 0.30 N/A N/A</td>
<td>N/A N/A N/A</td>
<td></td>
<td></td>
<td></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 N/A N/A</td>
<td>N/A N/A N/A</td>
<td></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.

### 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>

Continued
Mechanical & Environmental Performance

- Maximum Tensile Load
  - Installation: 345N / 77lbf
  - Long Term: 125N / 28lbf

- 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: -20°C to +85°C
  - Storage: -40°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 document 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: __________________