Product Specifications

Part No: 33-XXX-XXX-RXNOOP

33-Series Distribution Tight Buffer I/O Plenum Fiber Optic Cable

Applications
Outdoors in Duct, 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 outer jacket
- Overall Sheath: UV Resistant Remguard Plenum Rated Polymer

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

Cable Cross Section

(Water Swellable Aramid Yarn)
(Tight Buffered fibers)
(Jacket)

(Representation of a standard 12 fiber construction)
<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>33-002-XXX-RXNOOP</td>
<td>2</td>
<td>0.170 (4.3)</td>
<td>12 (18)</td>
</tr>
<tr>
<td>33-004-XXX-RXNOOP</td>
<td>4</td>
<td>0.185 (4.4)</td>
<td>14 (21)</td>
</tr>
<tr>
<td>33-006-XXX-RXNOOP</td>
<td>6</td>
<td>0.200 (4.6)</td>
<td>18 (27)</td>
</tr>
<tr>
<td>33-008-XXX-RXNOOP</td>
<td>8</td>
<td>0.215 (5.0)</td>
<td>20 (31)</td>
</tr>
<tr>
<td>33-012-XXX-RXNOOP</td>
<td>12</td>
<td>0.250 (5.8)</td>
<td>26 (39)</td>
</tr>
<tr>
<td>33-024-XXX-RXNOOP-T</td>
<td>24</td>
<td>0.319 (8.4)</td>
<td>43 (64)</td>
</tr>
</tbody>
</table>

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

<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>
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<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.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 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

• 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
  Installation: 0°C to +75°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.

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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: ____________