52F-Series FTTH Flat Drop Gel Filled Loose Tube Fiber Optic Cable

Product Specifications

Part No: 52F-XXX-XXX-EXCXSG

52F-Series FTTH Flat Drop Gel Filled Loose Tube Fiber Optic Cable

Cable Cross Section

Strength Members

Gel Filled Loose Tube

FGE Rods

Jacket

(Representation of a standard 12 fiber construction)

Scope
This document establishes the specification requirements for an aerial self-supporting central gel filled loose buffer tube design.

Applications
Used for fiber to the home or business, Aerial, Duct or Direct Burial

Applicable Documents
- TIA/EIA FOTP Standards 455
- Color Coding of Fiber Optic Cables TIA/EIA-598
- Compliant with ANSI/TIA-568-C.3 standard

Cable Construction Details
• Buffer Tube
  High Modulus Polymeric Material
• Buffer Tube Dimensions
  3.00 mm (0.118 in.), nominal
• Loose Tube Color Code:
  White
• Fiber Color Code:
  As per TIA/EIA-598 standard or per customer requirement
• Filling Compound
  Non-toxic dermatological safe antioxidant hydrocarbon based gel
• Dielectric Central Strength Member:
  Epoxy Glass Rods
• Fiberglass Rod Dimension:
  1.7 mm (0.067 in.), nominal
• Cable core:
  The cable core consists of the buffer tube, two fiberglass epoxy rods and fiberglass yarns
• Cable Strength:
  Epoxy Glass Rods are pulled in longitudinal on each side of the buffer tube.
• Overall Sheath: UV Resistant Polyethylene

Continued
<table>
<thead>
<tr>
<th>Nominal Cable Dimensions &amp; Weights</th>
<th>Jacket Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remee Products Part Number</td>
<td>Number of Fibers</td>
</tr>
<tr>
<td>52F-002-XXX-EXCBSG</td>
<td>2</td>
</tr>
<tr>
<td>52F-004-XXX-EXCDSG</td>
<td>4</td>
</tr>
<tr>
<td>52F-006-XXX-EXCFSG</td>
<td>6</td>
</tr>
<tr>
<td>52F-008-XXX-EXCHSG</td>
<td>8</td>
</tr>
<tr>
<td>52F-010-XXX-EXCJSG</td>
<td>12</td>
</tr>
<tr>
<td>52F-012-XXX-EXCLSG</td>
<td>12</td>
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</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>EMBr (MHz-km)</th>
<th>Gigabit Ethernet Minimum Link Distance (Meters)</th>
<th>10 Gigabit Ethernet Minimum Link Distance (Meters)</th>
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</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>
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<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>
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<tr>
<td>50µm OM2 10GIG (12D)</td>
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<td>1.0</td>
<td>N/A</td>
<td>N/A</td>
<td>750</td>
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<td>50µm OM3 10GIG (12N)</td>
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<td>1.0</td>
<td>N/A</td>
<td>N/A</td>
<td>1500</td>
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<tr>
<td>50µm OM4 10GIG (12V)</td>
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<td>1.0</td>
<td>N/A</td>
<td>N/A</td>
<td>3500</td>
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<tr>
<td>SM OS2 G.652.D (76K)</td>
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<td>N/A</td>
<td>0.40</td>
<td>0.30</td>
<td>N/A</td>
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<tr>
<td>SM OS2 G.652.D (74K)</td>
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<td>N/A</td>
<td>0.35</td>
<td>0.25</td>
<td>N/A</td>
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<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>
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<tr>
<td>SM OS2 G.652.D/G.657.A1, 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>
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</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: 1375N / 310lbf
  Long Term: 413N / 93lbf

• 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 +70°C
  Installation: -40°C to +70°C
  Storage: -50°C to +70°C

• Maximum Spans
  NESC Heavy: 150 ft
  NESC Medium: 300 ft
  NESC Light: 400 ft

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: _______________