**Product Specifications**

**Part No:** 52F-XXX-XXX-EXCXTG

**52F-Series FTTH Loose Tube**

**Toneable Fiber Optic Cable**

**Cable Cross Section**

(Representation of a standard 12 fiber construction)

**Scope**

This document establishes the specification requirements for an aerial self supporting central tube design with copper tracer.

**Applications**

Used for fiber to the home or business, aerial, Duct and 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.
- **Copper Conductor:**
  - 24awg solid bare copper conductor (pulled into the interstices)
- **Overall Sheath:** UV Resistant Polyethylene

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>52F-002-XXX-EXCBTG</td>
<td>2</td>
<td>0.180 x 0.330 (4.6 x 8.4)</td>
<td>30 (44)</td>
</tr>
<tr>
<td>52F-004-XXX-EXCDTG</td>
<td>4</td>
<td>0.180 x 0.330 (4.6 x 8.4)</td>
<td>30 (44)</td>
</tr>
<tr>
<td>52F-006-XXX-EXCFTG</td>
<td>6</td>
<td>0.180 x 0.330 (4.6 x 8.4)</td>
<td>30 (44)</td>
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<tr>
<td>52F-008-XXX-EXCHTG</td>
<td>8</td>
<td>0.180 x 0.330 (4.6 x 8.4)</td>
<td>30 (44)</td>
</tr>
<tr>
<td>52F-010-XXX-EXCTJTG</td>
<td>12</td>
<td>0.180 x 0.330 (4.6 x 8.4)</td>
<td>30 (44)</td>
</tr>
<tr>
<td>52F-012-XXX-EXCLTG</td>
<td>12</td>
<td>0.180 x 0.330 (4.6 x 8.4)</td>
<td>30 (44)</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 Types

<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>N/A</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>N/A</td>
</tr>
<tr>
<td>50µm OM3 10GIG (12N)</td>
<td>3.0</td>
<td>1.0</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</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>N/A</td>
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<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: 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**: -30°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.remeecom.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: ________________