Multi-Mode 62.5/125µ Multitube Unarmoured Fiber Optic Cable – 24F, 48F Cables

Techlogiks loose tube cables are the product of choice as the backbone in Indoor/Outdoor environments. The loose tube design offers reliable transmission performance over a broad temperature range. Optical Fibers are placed inside filled buffer tubes containing gel. The core is constructed by stranding the buffer tubes around a central member Glass Yarns and a black outer jacket are applied. Rip cords are included under outer jacket for ease of en-

Standards Compliance:
Telecordia GR-20, IEC 60794, EIA/TIA, ITU-T, EN187000, RUS1755.900

Applications:
Indoor and Outdoor, Trunk, distribution and feeder cable, Local loop, metro, long-haul and broadband network

Advantages:
High fiber density, Multiple network applications, Reduces cable prep and installation time, Reduces cost, Installation of more fibers in less space.

Optical Fibre Characteristics

<table>
<thead>
<tr>
<th>Fibre Type</th>
<th>62.5 µm (OM1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attenuation</td>
<td></td>
</tr>
<tr>
<td>at 850 nm</td>
<td>≤ 3.2 dB/km</td>
</tr>
<tr>
<td>at 1300 nm</td>
<td>≤ 1.2 dB/km</td>
</tr>
<tr>
<td>Bandwidth</td>
<td></td>
</tr>
<tr>
<td>850 nm</td>
<td>≥ 200 MHz.km</td>
</tr>
<tr>
<td>1300 nm</td>
<td>≥ 600 MHz.km</td>
</tr>
<tr>
<td>Core Diameter</td>
<td>62.5 ± 2.5 µm</td>
</tr>
<tr>
<td>Core Cladding Concentricity Error</td>
<td>≤ 1 µm</td>
</tr>
<tr>
<td>Cladding Diameter</td>
<td>125 ± 1 µm</td>
</tr>
<tr>
<td>Cladding Non-circularity</td>
<td>≤ 1 %</td>
</tr>
<tr>
<td>Coating Diameter</td>
<td>250 ± 15 µm</td>
</tr>
</tbody>
</table>
## Cable Construction Details

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Dimensions</th>
<th>Type, Color</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>48F</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of Fiber per tube</td>
<td>8</td>
<td>Bl, Or, Gr, Br, Sl, Wh, Rd, Bl, Or, Gr, Br, Sl, Wh</td>
</tr>
<tr>
<td>Number of Loose Tubes</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>24F</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of Fiber per tube</td>
<td>4</td>
<td>Bl, Or, Gr, Br, Sl, Wh</td>
</tr>
<tr>
<td>Number of Loose Tubes</td>
<td>6</td>
<td>Bl, Or, Gr, Br, Sl, Wh</td>
</tr>
<tr>
<td>Moisture Barrier</td>
<td>Water Swellable Yarn &amp; Water Swellable Tape</td>
<td></td>
</tr>
<tr>
<td><strong>48F</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Loose Tube ID/OD</td>
<td>PBT</td>
<td>1.5/2.2 ± 0.1 mm</td>
</tr>
<tr>
<td>Central Strength Member</td>
<td>FRP Rod</td>
<td>2.3 ± 0.1 mm</td>
</tr>
<tr>
<td>Outer Sheath</td>
<td>LSOH - Black</td>
<td>1.5 mm (Nominal)</td>
</tr>
<tr>
<td>Number of Ripcords</td>
<td>Polyester</td>
<td>1</td>
</tr>
<tr>
<td>Overall Cable Diameter</td>
<td>10.0 ± 0.5 mm</td>
<td>9.0 ± 0.5 mm</td>
</tr>
<tr>
<td>Cable Weight</td>
<td>100.0 ± 10 kg</td>
<td>85 ± 10 kg/km</td>
</tr>
</tbody>
</table>

## Cable Mechanical Characteristics

<table>
<thead>
<tr>
<th>Tight Cable</th>
<th>48F</th>
<th>24F</th>
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</thead>
<tbody>
<tr>
<td>Tensile Strength</td>
<td>1500 N</td>
<td>1000 N</td>
</tr>
<tr>
<td>Crush Resistance</td>
<td>2000 N</td>
<td>2000 N</td>
</tr>
<tr>
<td>Torsion</td>
<td>± 180 °</td>
<td>± 180 °</td>
</tr>
<tr>
<td>Impact</td>
<td>10 N.m</td>
<td>10 N.m</td>
</tr>
<tr>
<td>Minimum Bend Radius</td>
<td>20 x D</td>
<td>20 x D</td>
</tr>
</tbody>
</table>

## Temperature Performance

<table>
<thead>
<tr>
<th></th>
<th>Installation</th>
<th>Operation</th>
<th>Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>-20 °C to + 70 °C</td>
<td>-20 °C to + 70 °C</td>
<td>-20 °C to + 70 °C</td>
<td></td>
</tr>
</tbody>
</table>

## ORDERING INFORMATION

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
</table>