Air-Blown Micro Cable

CommScope introduces a new family of cost effective fiber optic micro cables designed for air blown installations into microducts. Microduct technology provides a cost effective, craft friendly way to upgrade your network, which can grow on demand by deploying fiber as needed. This technology is also common in congested areas, such as metro applications, where duct space is very limited. These cable designs are compact and lightweight, and contain high fiber density to maximize the fiber count available in a small cable diameter.

CommScope’s air-blown micro cable product portfolio includes both a stranded loose tube and central tube design. The stranded loose tube design is available in counts up to 144 with outer diameters varying from 5.6mm - 8.2mm. Stranded loose tube cable provides easy, mid-span access. The central tube design is available in counts up to 24 with outer diameters ranging from 3.5mm to 4.2mm. This compact, lightweight cable design is installer-preferred in access applications due to ease of handling. Both cable constructions are qualified under the general guidelines of IEC 60794.

Feature and Benefits

- Designed for air blown, microduct applications
- Small, cost effective, lightweight cable designs containing maximized fiber capacity
- Qualified under the IEC 60794 general guidelines

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|---|---
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Air-Blown Micro Cable Product Description Matrix

<table>
<thead>
<tr>
<th>CABLE TYPE</th>
<th>FIBER TYPE</th>
<th>TRACER FIELD</th>
<th>NUMBER OF FIBERS PER SUBUNIT</th>
<th>CABLE MARKING</th>
</tr>
</thead>
<tbody>
<tr>
<td>B - 012 - LN - 8Z - M 12 NS</td>
<td>B - Blown Micro Cable</td>
<td>8Z - G.652D Single Mode</td>
<td>NS - No Stripe</td>
<td>12 - 12 Fibers per Subunit</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CABLE TYPE</th>
<th>FIBER COUNT</th>
<th>CABLE CONSTRUCTION</th>
<th>FIBER COUNT</th>
<th>CABLE CONSTRUCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>B - Blown Micro Cable</td>
<td>XXX - Fiber Count</td>
<td>LN - Loose Tube, All-Dielectric</td>
<td>CN - Central Tube, All-Dielectric</td>
<td></td>
</tr>
</tbody>
</table>

For product updates or more information please visit our website

www.commscope.com
Air-Blown Micro Cable

Physical Specifications

<table>
<thead>
<tr>
<th>Product Type/Fiber Count</th>
<th>Catalog Number</th>
<th>Cable Outer Diameter mm</th>
<th>Subunits</th>
<th>Minimum Bend Radius Loaded cm</th>
<th>Minimum Bend Radius Unloaded cm</th>
<th>Max. Tensile Loading Short Term W=weight (kg) per kilometer of cable</th>
<th>Weight kg/km</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Tube All-Dielectric 2 - 12 Fibers</td>
<td>B-XXX-CN-8Z-MZZNS</td>
<td>3.5</td>
<td>1</td>
<td>7.0</td>
<td>3.5</td>
<td>0.5W 0.15W</td>
<td>18</td>
</tr>
<tr>
<td>Central Tube All-Dielectric 14 - 24 Fibers</td>
<td>B-XXX-CN-8Z-MZZNS</td>
<td>4.2</td>
<td>1</td>
<td>8.4</td>
<td>4.2</td>
<td>0.5W 0.15W</td>
<td>30</td>
</tr>
<tr>
<td>Stranded Loose Tube All-Dielectric 2 - 72 Fibers</td>
<td>B-XXX-LN-8Z-MZZNS</td>
<td>5.6</td>
<td>6</td>
<td>11.2</td>
<td>5.6</td>
<td>0.5W 0.15W</td>
<td>81</td>
</tr>
<tr>
<td>Stranded Loose Tube All-Dielectric 74 - 96 Fibers</td>
<td>B-XXX-LN-8Z-MZZNS</td>
<td>6.4</td>
<td>8</td>
<td>12.8</td>
<td>6.4</td>
<td>0.5W 0.15W</td>
<td>116</td>
</tr>
<tr>
<td>Stranded Loose Tube All-Dielectric 98 - 144 Fibers</td>
<td>B-XXX-LN-8Z-MZZNS</td>
<td>8.2</td>
<td>12</td>
<td>16.4</td>
<td>8.2</td>
<td>0.5W 0.15W</td>
<td>164</td>
</tr>
</tbody>
</table>

Variables in the Catalog Number:
- XXX = Total Fiber Count
- ZZ = Number of Fibers per Tube
- Buffer Tubes/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

Central Tube All-Dielectric
12 Fiber Cable Shown
- HDPE Outer Jacket
- Aramid Strength Member
- Water Swellable Yarn
- 250 micron Fibers
- Gel Filled Buffer Tube
- Ripcord

Stranded Loose Tube All-Dielectric
72 Fiber Cable Shown
- HDPE Outer Jacket
- Aramid Strength Members
- Water Swellable Yarn
- Binder
- Gel-Filled Buffer Tubes
- 250 micron Fibers
- Dielectric Strength Member
- Ripcord

Environmental Specifications for Central Tube All-Dielectric
- Installation Temperature: -10°F to +50°F
- Operating Temperature: -30°F to +70°F
- Storage Temperature: -30°F to +70°F

Environmental Specifications for Stranded Loose Tube All-Dielectric
- Installation Temperature: -15°F to +75°F
- Operating Temperature: -30°F to +70°F
- Storage Temperature: -40°F to +70°F

Mechanical Test Specifications for Central Tube All-Dielectric
- Crush: Short Term: 450N, Long Term: 150N IEC 60794-1-2-E3
- Bending: 25N for 25 Cycles IEC 60794-1-2-E6
- Torsion: 45N for 5 Cycles IEC 60794-1-2-E7
- Strain: See long & short term tensile loads IEC 60794-1-2-E1A and E1B
- Water Penetration: 1 Hour IEC 60794-1-2-F5

Mechanical Test Specifications for Stranded Loose Tube All-Dielectric
- Crush: Short Term: 450N, Long Term: 150N IEC 60794-1-2-E3
- Bending: 25N for 20 Cycles IEC 60794-1-2-E6
- Torsion: 45N for 5 Cycles IEC 60794-1-2-E7
- Strain: See long & short term tensile loads IEC 60794-1-2-E1A and E1B
- Water Penetration: 24 Hours IEC 60794-1-2-F5

CommScope Optical Cables are qualified under the general guidelines to the following specifications:
- IEC 60794

Drawings not to scale
Specifications subject to change