ezMICROUNITUBE™
Central tube cable (gel)

Simple central tube design with flexible access for up to 24 fibers

Overview
Prysmian’s ezMICROUNITUBE™ cables combine fiber bundles into a single central buffer tube. Users gain quick access to all fibers, with fiber bundles separated by color-coded binder threads. All ezMICROUNITUBE™ cables utilize longitudinal strength members for robust tensile strength and anti-buckling. Steel members are used with armored cable, dielectric is used with non-armored cable. The combination of adhesive armor, a flexible core tube, swellable water-blocking make ezMICROUNITUBE™ the easiest central tube cable to access and preparation.

Product Snapshot

Applications
Multi-purpose outdoor – aerial lashed, duct, direct buried

Constructions
Dielectric, armored

Fiber Count
2 to 24 fibers in fiber bundles separated by color-coded binder threads

Fiber Types
Single-mode / bend-insensitive / NZDSF / multimode / hybrid

Performance
ANSI / ICEA 640, RUS 7 CFR 755 (RUS Listed), Telcordia GR-20

Registered Supplier
ISO 9001, ISO 14001, TL 9000, and OHSAS 18001

Features and Benefits

Easy Cable Entry and Preparation
- Adhesive bond armor (armored version) greatly improves mid-entry
- Single core tube allows quick access to fibers
- Flexible routing and termination
- Single central buffer tube reduces size and bend diameter
- Quick access to all fibers
- Bend-insensitive single-mode fiber option

Multi-Purpose Installation and Use
- Suitable for aerial lashed, duct, and direct buried installation
- Small diameter and light weight extend installation lengths
- Corrugated steel tape armor provides mechanical protection and rodent resistance (armored version)

Reliable Lifetime Performance
- Proven water-blocking with swellable core tape and gel-filled buffer tube
- Guaranteed standards-based performance
**Nominal Design Parameters**

**Dielectric (UMH1JKT)**

<table>
<thead>
<tr>
<th>Fiber Count</th>
<th>Diameter inches (mm)</th>
<th>Cable Weight lb/lbft (kg/km)</th>
<th>Bend Radius</th>
<th>Load inches (cm)</th>
<th>Bend Radius</th>
<th>No Load inches (cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 to 12</td>
<td>0.35 (8.8)</td>
<td>40 (60)</td>
<td>7 (18)</td>
<td>4 (9)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Armored (SP) (UMH1A1J)**

<table>
<thead>
<tr>
<th>Fiber Count</th>
<th>Diameter inches (mm)</th>
<th>Cable Weight lb/lbft (kg/km)</th>
<th>Bend Radius</th>
<th>Load inches (cm)</th>
<th>Bend Radius</th>
<th>No Load inches (cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 to 24</td>
<td>0.41 (10.3)</td>
<td>77 (114)</td>
<td>8 (21)</td>
<td>6 (15)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Temperature Range**

- **Shipping and Storage:** -40°F to +167°F (-40°C to +75°C)
- **Installation:** -22°F to +140°F (-30°C to +60°C)
- **Operation:** -40°F to +158°F (-40°C to +70°C)

**Ordering Guide**

The Prysmian Group part number incorporates several significant attributes involving cable design and optical performance. The appropriate part number can be configured using the process described below.

**Example:** ezMICROUNITUBE, single armor single jacket with 12 single-mode fibers (printed in feet)

**Part Number Construction**

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>UMH</td>
<td>1A1</td>
<td>12</td>
<td>HB</td>
<td>012</td>
<td>E3</td>
</tr>
</tbody>
</table>

**Fiber Information**

**Single-Mode**

- **HB** = Single-Mode (ITU G.652 C & D) Low Water Peak
- **ES** = Enhanced Single-Mode (ITU G.652 C & D)
- **CE** = Corning™ SMF28e+ Single-Mode

**Multimode**

<table>
<thead>
<tr>
<th>Wavelength (nm)</th>
<th>Bandwidth (MHz)</th>
<th>1 GbE Dist (m)</th>
<th>10 GbE Dist (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G6 = OM1 (62.5μm)</td>
<td>850/1300</td>
<td>200/500</td>
<td>300/550</td>
</tr>
<tr>
<td>G5 = OM2+ BIF (50μm)</td>
<td>850/1300</td>
<td>700/500</td>
<td>800</td>
</tr>
<tr>
<td>G3 = OM3 BIF (50μm)</td>
<td>850/1300</td>
<td>1500/500</td>
<td>1000</td>
</tr>
<tr>
<td>G4 = OM4 BIF (50μm)</td>
<td>850/1300</td>
<td>3500/500</td>
<td>1100</td>
</tr>
</tbody>
</table>

**Fiber Grade**

- **E1** = 0.40/0.40/0.30 1310/1380/1550 HB, ES, or CE
- **E3** = 0.35/0.35/0.25 1310/1380/1550 HB, ES, CE, B1 or B2

Other cable constructions and fiber performance grades available on request.