TIGHT BUFFER DISTRIBUTION PVC/LSZH JACKETED CABLE

► Application
Breakout Cable is designed for routing to different locations and direct termination of fibers in the field. The cable is mostly suitable for pre-terminated cable assemblies.

► Description
The cable contains 2 to 36 fibers which are individually buffered tight or semi-tight construction. Each fiber is individually protected in a mini cable. Aramid yarn will be applied either inside the mini cable or within the inner jacket of the cable. The color coded mini cable may be stranded around a central strength member which can be either FRP or flexible all-dielectric. Outer Jacket may be PVC or LSZH.

► Construction

► Physical Properties

<table>
<thead>
<tr>
<th>Fiber Count</th>
<th>Nominal Weight (kg/km)</th>
<th>Nominal Weight (lb/kft)</th>
<th>Nominal Outer Diameter (mm)</th>
<th>Nominal Outer Diameter (in)</th>
<th>Maximum Pulling Load</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Installation (N/lb)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>In Service (N/lb)</td>
</tr>
<tr>
<td>2</td>
<td>50.0</td>
<td>33.56</td>
<td>5.5</td>
<td>0.217</td>
<td>1200/270</td>
</tr>
<tr>
<td>6</td>
<td>110.0</td>
<td>73.83</td>
<td>12.5</td>
<td>0.493</td>
<td>2000/450</td>
</tr>
<tr>
<td>12</td>
<td>160.0</td>
<td>107.38</td>
<td>13.0</td>
<td>0.512</td>
<td>3515/790</td>
</tr>
<tr>
<td>24</td>
<td>230.0</td>
<td>154.36</td>
<td>15.5</td>
<td>0.611</td>
<td>5470/1230</td>
</tr>
</tbody>
</table>

► Mechanical Properties

Minimum Bending Radius:
- Under installation: 20×OD
- During operation: 10×OD for unarmoured cables, 20×OD for armoured cables

Maximum Compressive Load:
- 3000N for unarmoured
- 5000N for armoured

Repeated Impact: 2.9 N.m (J) 3×2 impacts
Twist (Torsion): 180×10 times, 125×OD
Cyclic Flexing: 25 cycles for armoured cables.
- 100 cycles for unarmoured cables

Crush Resistance: 1750N/cm (1000lb/in)
**Fiber Compliance**

- Temperature Cycling: IEC60794-1-2-F2
- Tensile Strength: IEC60794-1-2-E1A
- Crush: IEC60794-1-2-E3
- Impact: IEC60794-1-2-E4
- Repeated Bending: IEC60794-1-2-E6
- Torsion: IEC60794-1-2-E7
- Kink: IEC60794-1-2-E10
- Cable Bend: IEC60794-1-2-E11
- Cool Bend: IEC60794-1-2-E11

**Safety Compliance**

- General Purpose Grade: Flammability Test: OFN(UL1581)
- Riser Grade: Flammability Test: OFNR/FT4 (UL1666)
- Plenum Grade: Flammability Test: OFNP/FT6(UL 910)
- FRPVC Grade: Flammability Test: IEC60332-1
- LSZH Grade: Halogen Content Test: IEC 60754-1
  - Acidity Test: IEC 60754; Smoke Emission Test: IEC61034-1/2
- LSFROH Grade: Halogen Content Test: IEC 60754-1
  - Acidity Test: IEC 60754; Smoke Emission Test: IEC61034-1/2
  - Flammability Test: IEC60332-1 & IEC 60332-3C/A
- FR Grade: Fire Resistance Test: IEC 60331 / BS 6387 CWZ

**Standard Compliance**

- GR-409-CORE: TIA/EIA 568B.3
- ICEA-S-83-596

**Features**

- Most rugged and "user friendly" cable design for Local Area Networks
- For installations where ease of termination and termination costs are important factors
- Short and moderate distance links between buildings or within a building, where multiple termination points are needed
- Breakout cables are designed for direct termination with standard connectors
- Cable ideal for direct pulling with wire mesh grips
- Suitable for both indoor and outdoor use -- no need to for splicing at the building entrance
- Flame-retardant or LSZH version for indoor installations
- Fungus-resistant, water-resistant, and UV-resistant for outdoor use
- High quality tight-buffered coating on each fiber for environmental and mechanical protection