96 & 144 Fiber Dry Loose Tube Indoor-Outdoor Cable, Plenum

Features and Benefits
- Gel-Free waterblocked design
- UV protected rugged jacket
- 96 & 144 fiber count
- Available in all fiber types

Description
The Light Connection, Inc. multi-tube Dry Loose Tube Indoor-Outdoor Cable is composed of eight and twelve buffer tubes, water blocking yarn, a central strength member, an aramid ripcord, and a PVDF outer jacket. Each buffer tube consists of a 12 colored glass fibers and water-swellable yarn with a PVDF jacket 2.5mm in diameter. All component materials meet the EU RoHS and REACH Directive standards. Buffer tubes may be color-coded or sequentially numbered.

TLC Dry Loose Tube is available in carbon black or special-order colors (including 12 TIA standard colors). UL Listed OFNP cables are available, and unrated cables can be supplied to accommodate special needs. Standard surface print denotes construction, NEC rating, and fiber type, and includes footage markers. Custom print may also be accommodated.

Application
Plenum
Duct
Indoor/Outdoor

Flame Rating
NFPA262
FT6
## Specifications

### Temperature Range

<table>
<thead>
<tr>
<th></th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage Temperature</td>
<td>-40°C to +70°C</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40°C to +70°C</td>
</tr>
</tbody>
</table>

### Cable Characteristics

<table>
<thead>
<tr>
<th></th>
<th>Value (96/144 Fiber count)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiber Count</td>
<td>96/144</td>
</tr>
<tr>
<td>Outer Jacket Material</td>
<td>PVDF</td>
</tr>
<tr>
<td>Buffer Tubes</td>
<td>PVDF</td>
</tr>
<tr>
<td>Strength Member</td>
<td>Aramid Yarn</td>
</tr>
<tr>
<td>Central Strength Member</td>
<td>Fiber Reinforced Rod</td>
</tr>
<tr>
<td>Coating on Central Strength Member</td>
<td>Flame Retardant PVC(if applicable)</td>
</tr>
</tbody>
</table>

### Physical Characteristics

<table>
<thead>
<tr>
<th></th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Outer Diameter (mm)</td>
<td>12.0 / 13.0</td>
</tr>
<tr>
<td>Weight (lbs/ km)</td>
<td>325 / 388</td>
</tr>
<tr>
<td>Minimum Bend Radius, Installation (cm)</td>
<td>18.0 / 19.5</td>
</tr>
<tr>
<td>Minimum Bend Radius, Operation (cm)</td>
<td>12.0/13.0</td>
</tr>
</tbody>
</table>

### Optical Characteristics

<table>
<thead>
<tr>
<th>Items</th>
<th>Single Mode</th>
<th>OM1</th>
<th>OM2</th>
<th>OM3</th>
<th>OM4 (OM4+)</th>
<th>OM5 (WB MMF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Size (μm)</td>
<td>9</td>
<td>62.5</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Wavelength [nm]</td>
<td>1,310/1,550</td>
<td>850/1,300</td>
<td>850/1,300</td>
<td>850/1,300</td>
<td>850/1,300</td>
<td></td>
</tr>
<tr>
<td>Max. Attenuation [dB/km]</td>
<td>0.5/0.4</td>
<td>3.5</td>
<td>3.5</td>
<td>3.0</td>
<td>3.0/1.0</td>
<td>3.0/1.0</td>
</tr>
<tr>
<td>Link Length [m]</td>
<td>10,000/5,000(1/10 Gb/s@850nm)</td>
<td>300</td>
<td>300</td>
<td>300</td>
<td>550(600)</td>
<td>550</td>
</tr>
<tr>
<td>Bandwidth (EMB High Performance) [MHz.km]</td>
<td>220 @850</td>
<td>750 @850</td>
<td>2,000 @850</td>
<td>4,700 @850</td>
<td>4,700 @850</td>
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</tr>
</tbody>
</table>

### Part Numbers

<table>
<thead>
<tr>
<th>Fiber Count</th>
<th>Single Mode</th>
<th>OM1</th>
<th>OM2</th>
<th>OM3</th>
<th>OM4-OM5</th>
</tr>
</thead>
<tbody>
<tr>
<td>96</td>
<td>S09DL96**NPBL25</td>
<td>M62DL96**NPBL25</td>
<td>M50DL96**NPBL25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>144</td>
<td>S09DL144**NPBL25</td>
<td>M62DL144**NPBL25</td>
<td>M50DL144**NPBL25</td>
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<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fiber Type (9/125)</th>
<th>**</th>
<th>Fiber Type (50/125)</th>
<th>**</th>
<th>Fiber Type (62.5/125)</th>
<th>**</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMF-28 Ultra</td>
<td>CZ</td>
<td>ClearCurve OM2</td>
<td>C2</td>
<td>InfiniCor 300</td>
<td>C3</td>
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<tr>
<td>ClearCurve LBL</td>
<td>C7</td>
<td>Clear Curve OM3</td>
<td>CG</td>
<td></td>
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<tr>
<td>ClearCurve ZBL</td>
<td>CC</td>
<td>ClearCurve OM4</td>
<td>C4</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>ClearCurve OM5</td>
<td>C5</td>
<td></td>
<td></td>
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</tbody>
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Specifications are subject to change without notice.