Features and Benefits
- Ultra space-saving designs
- 250µm color-coded bare fiber
- 12 bare fibers per subunit up to 144 fiber constructions
- Available in all fiber types
- Meets the application requirement of National Electric Code (NEC) Article 770 and are OFNP-rated

Description
The Light Connection 96 & 144 fiber Micro Distribution Cable is composed of eight to twelve sub units, an optional central member, aramid yarn, an aramid ripcord, and a PVC outer jacket. Each sub-unit consists of 12 colored glass fibers surrounded by aramid yarn with a PVC jacket 2.00 mm in diameter. All component materials meet the EU RoHS and REACH Directive standards. Sub-units can be color-coded or sequentially numbered.

TLC Micro Distribution Cable is available in 12 TIA standard colors or special-order colors. UL Listed OFNP cables are available, and unlisted, unrated cable can be supplied to accommodate special needs. Standard surface print denotes construction, NEC rating and fiber type, and includes footage markers. Custom print can also be accommodated.

Application
Plenum
Data Centers

Flame Rating
NFPA262
### Specifications

#### Temperature Range
- **Storage Temperature**: -40°C to +70°C
- **Operating Temperature**: 0°C to +70°C

#### Cable Characteristics
- **Fiber Count**: 96, 144
- **Outer Jacket Material**: Flame Retardant PVC
- **Sub Units**: Flame Retardant PVC
- **Strength Member**: Aramid Yarn
- **Central Strength Member (if applicable)**: Fiber Reinforced Rod

#### Mechanical Characteristics
<table>
<thead>
<tr>
<th>Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Outer Diameter (mm): 96, 144</td>
<td>9.3/ 10.6</td>
</tr>
<tr>
<td>Weight (lbs/ km): 96, 144 (fiber count)</td>
<td>200/ 250</td>
</tr>
<tr>
<td>Minimum Bend Radius, Installation (cm) of 96, 144 (fiber count)</td>
<td>18.6/ 21.2</td>
</tr>
<tr>
<td>Minimum Bend Radius, Operation (cm) of 96, 144 (fiber count)</td>
<td>9.3/ 10.6</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</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Size</td>
<td>9 um</td>
<td>62.5 um</td>
<td>50 um</td>
<td>50 um</td>
<td>50 um</td>
</tr>
<tr>
<td>Wavelength</td>
<td>(1310/ 1550) nm</td>
<td>(850/ 1300) nm</td>
<td>(850/ 1300) nm</td>
<td>(850/ 1300) nm</td>
<td>(850/ 1300) nm</td>
</tr>
<tr>
<td>Max. Attenuation</td>
<td>(0.5/ 0.4) dB/ km</td>
<td>(3.5/ 1.5) dB/ km</td>
<td>(3.5/ 1.5) dB/ km</td>
<td>(3.5/ 1.5) dB/ km</td>
<td>(3.5/ 1.5) dB/ km</td>
</tr>
<tr>
<td>Bandwidth (EMB) (High Performance)</td>
<td>220 MHz @850nm</td>
<td>850 MHz @850nm</td>
<td>2000 MHz @850nm</td>
<td>4700 MHz @850nm</td>
<td></td>
</tr>
<tr>
<td>Link Length (10Gb/ s)</td>
<td>150 mtr</td>
<td>300 mtr</td>
<td>550 mtr</td>
<td></td>
<td></td>
</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</th>
</tr>
</thead>
<tbody>
<tr>
<td>96</td>
<td>S09MD96**NPY20-Y</td>
<td>M62MD96**NPO20-O</td>
<td>M50MD96**NPO20-O</td>
<td>M50MD96**NPA20-A</td>
<td>M50MD96**NPA20-A</td>
</tr>
<tr>
<td>144</td>
<td>S09MD144**NPY20-Y</td>
<td>M62MD144**NPO20-O</td>
<td>M50MD144**NPO20-O</td>
<td>M50MD144**NPA20-A</td>
<td>M50MD144**NPA20-A</td>
</tr>
</tbody>
</table>

#### Fiber Type (9/125)
- SMF-28 Ultra: CZ
- SMF28e+: C
- ClearCurve XB: CB
- ClearCurve LBL: C7
- ClearCurve ZBL: CC

#### Fiber Type (50/125)
- ClearCurve OM2: C2
- Clear Curve OM3: CG
- ClearCurve OM4: C4

#### Fiber Type (62.5/125)
- InfiniCor 300: C3
- InfiniCor 1000: C1

Specifications are subject to change without notice.