2-24 Fiber Distribution Cable, Riser

Features and Benefits
- 900µm Tight Buffers
- Aramid yarn strength members
- Exclusive use of Corning® optical fibers
- Jacket print ensures product identification and fiber compatibility
- Durable jacket offers added protection during installation and in rugged use applications

Description
The Light Connection, Inc. Distribution Cable is composed of 2 to 24 colored tight buffered optical fibers, aramid yarn, and a PVC outer jacket. All component materials meet the EU RoHS and REACH Directive standards.

TLC Distribution Cable is available in 12 TIA standard colors or special order colors. UL Listed OFNR cables are available, and unrated cables may 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
Riser

Flame Rating
UL1666
UL1685 (FT4)
### Specifications

#### Temperature Range
- **Indoor**
  - **Storage Temperature**: -40 °C to +70 °C
  - **Operating Temperature**: -20 °C to +70 °C

#### Cable Characteristics
- **Fiber Count**: 2, 4, 6, 8, 12, 24
- **Outer Jacket Material**: Flame Retardant PVC
- **Outer Jacket Color**: Available in 12 TIA/ EIA color standard
- **Strength Member**: Aramid Yarn
- **Tight Buffer Material**: Flame Retardant PVC
- **Tight Buffer Color**: Available in 12 TIA/ EIA color standard

#### Physical Characteristics
- **Nominal Outer Diameter (mm)**: 4.4/ 4.4/ 4.8/ 5.8/ 5.8 / 7.8
- **Weight (lbs/ km)**: 36/ 43/ 51/ 70/ 74/ 115
- **Minimum Bend Radius, Installation (cm)**: 6.6/ 6.6/ 7.2/ 8.7/ 8.7/ 11.7
- **Minimum Bend Radius, Operation (cm)**: 4.4/ 4.4/ 4.8/ 5.8/ 5.8/ 7.8

#### 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>1310/ 1550</td>
<td>850/ 1300</td>
<td>850/1300</td>
<td>850/ 1300</td>
<td>850/ 1300</td>
<td>850/ 1300</td>
</tr>
<tr>
<td>Max. Attenuation [dB/km]</td>
<td>0.5/ 0.4</td>
<td>3.5/ 1.5</td>
<td>3.5/1.5</td>
<td>3.0/ 1.0</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 (1/10Gbps@1550nm)</td>
<td>300 (10Gbps@850nm)</td>
<td>150 (10Gbps@850nm)</td>
<td>300 (10Gbps@850nm)</td>
<td>550 (600) (10Gbps@850nm)</td>
<td>550 (10Gbps@850nm)</td>
</tr>
<tr>
<td>Bandwidth (EMB High Performance) [MHz.km]</td>
<td>–</td>
<td>220 @850nm</td>
<td>750@850</td>
<td>2,000 @850</td>
<td>4,700 @850</td>
<td>4,700@850</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-OM4</th>
<th>OM5 (WB MMF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>S09DI02**NRY</td>
<td>M62DI02**NRO</td>
<td>M50DI02**NRO</td>
<td>M50DI02**NRA</td>
<td>M50DI02**NRLG</td>
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<td>4</td>
<td>S09DI04**NRY44</td>
<td>M62DI04**NRO44</td>
<td>M50DI04**NRO44</td>
<td>M50DI04**NRA44</td>
<td>M50DI04**NRLG44</td>
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<td>6</td>
<td>S09DI06**NRY48</td>
<td>M62DI06**NRO48</td>
<td>M50DI06**NRO48</td>
<td>M50DI06**NRA48</td>
<td>M50DI06**NRLG48</td>
</tr>
<tr>
<td>8</td>
<td>S09DI08**NRY58</td>
<td>M62DI08**NRO58</td>
<td>M50DI08**NRO58</td>
<td>M50DI08**NRA58</td>
<td>M50DI08**NRLG58</td>
</tr>
<tr>
<td>12</td>
<td>S09DI12**NRY58</td>
<td>M62DI12**NRO58</td>
<td>M50DI12**NRO58</td>
<td>M50DI12**NRA58</td>
<td>M50DI12**NRLG58</td>
</tr>
<tr>
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<td>M62DI24**NRO78</td>
<td>M50DI24**NRO78</td>
<td>M50DI24**NRA78</td>
<td>M50DI24**NRLG78</td>
</tr>
</tbody>
</table>

#### Fiber Type (9/125)
- **SMF-28 Ultra**: CZ
- **ClearCurve LBL**: C7
- **ClearCurve ZBL**: CC

#### Fiber Type (50/125)
- **ClearCurve OM2**: C2
- **Clear Curve OM3**: CG
- **ClearCurve OM4**: C4
- **ClearCurve OM5**: C5

#### Fiber Type (62.5/125)
- **InfineCor 300**: C3