Features and Benefits

- 3mm, 2mm, 1.8mm and 1.6mm OD sizes to meet all patch cord applications
- Consistent 3.5 – 5 lbs-f for easy stripability
- Available in custom colors

Description

The Light Connection Duplex Cable is composed of two tight buffers, aramid yarn, and a PVC outer jacket. All component materials meet the EU RoHS and REACH Directive standards.

TLC Duplex Cable is available in 12 TIA standard colors or special order colors. UL Listed OFNR cables are available, and unlisted, 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 can also be accommodated.

Application

Riser

Flame Rating

UL1666
## Specifications

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

### Cable Characteristics
- **Fiber Count:** 2
- **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:** White & Aqua for (MM 50/125 fiber), Blue & Orange for (SM 9/125 and MM 62.5/125 fiber)

### Physical Characteristics
- **Nominal Outer Diameter (mm):** 2.95 x 5.95 / 1.95 x 3.95 / 1.80 x 3.65 / 1.60 x 3.25
- **Weight (lbs/km):** 34 / 26 / 18 / 12
- **Minimum Bend Radius (mm) (Bend Insensitive SM):** 5 / 10
- **Minimum Bend Radius (mm) (Bend Insensitive MM):** 7.5
- **Minimum Bend Radius (mm) (SM) 1 turn/100 turns:** 32 / 50

### 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><strong>Core Size</strong></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><strong>Wavelength</strong></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><strong>Max. Attenuation</strong></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><strong>Bandwidth (EMB) (High Performance)</strong></td>
<td>–</td>
<td>220 MHz @850nm</td>
<td>850 MHz @850nm</td>
<td>2000 MHz @850nm</td>
<td>4700 MHz @850nm</td>
</tr>
<tr>
<td><strong>Link Length (10Gb/s)</strong></td>
<td>–</td>
<td></td>
<td>150 mtr</td>
<td>300 mtr</td>
<td>550 mtr</td>
</tr>
</tbody>
</table>

### Part Numbers

<table>
<thead>
<tr>
<th>Fiber Count / Size</th>
<th>Single Mode</th>
<th>OM1</th>
<th>OM2</th>
<th>OM3</th>
<th>OM4</th>
</tr>
</thead>
<tbody>
<tr>
<td>02 / 2.95mm</td>
<td>S09DX02**NRY</td>
<td>M62DX02**NRO</td>
<td>M50DX02**NRA</td>
<td>M50DX02**NRA</td>
<td>M50DX02**NRA</td>
</tr>
<tr>
<td>02 / 1.95mm</td>
<td>S09DX02**NRY20</td>
<td>M62DX02**NRO20</td>
<td>M50DX02**NRA20</td>
<td>M50DX02**NRA20</td>
<td>M50DX02**NRA20</td>
</tr>
<tr>
<td>02 / 1.80mm</td>
<td>S09DX02**NRY18</td>
<td>M62DX02**NRO18</td>
<td>M50DX02**NRA18</td>
<td>M50DX02**NRA18</td>
<td>M50DX02**NRA18</td>
</tr>
<tr>
<td>02 / 1.60mm</td>
<td>S09DX02**NRY16</td>
<td>M62DX02**NRO16</td>
<td>M50DX02**NRA16</td>
<td>M50DX02**NRA16</td>
<td>M50DX02**NRA16</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.

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