XGLO® & LightSystem® Indoor/Outdoor Tight Buffer - International

Siemon LSZH (IEC 60332-3) indoor/outdoor tight buffer fiber cables are ideal for data centres, campus and building backbones. Siemon fiber optic cables are offered in XGLO and LightSystem configurations supporting high-speed applications such as Gigabit Ethernet, 10 Gigabit Ethernet and Fiber Channel. Siemon indoor/outdoor water blocking is primarily for dry duct applications for moisture and temporary water migration protection.

### Ordering Information:

<table>
<thead>
<tr>
<th>Fiber Type</th>
<th>Performance</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>G101 = OM1 62.5/125µm</td>
<td>G01 = OM1 62.5/125µm</td>
<td>M</td>
</tr>
<tr>
<td>T301 = OM3 50/125µm Laser Optimised</td>
<td>T301 = OM3 50/125µm Laser Optimised</td>
<td>M</td>
</tr>
<tr>
<td>T501 = OM4 50/125µm Laser Optimised</td>
<td>T501 = OM4 50/125µm Laser Optimised</td>
<td>M</td>
</tr>
<tr>
<td>E201 = OS1/OS2 Singlemode</td>
<td>E201 = OS1/OS2 Singlemode</td>
<td>M</td>
</tr>
</tbody>
</table>

### Fiber Type

**Fiber Count (Subunit):**
- 004C = 4 (1 Tube with 4 Fibers)
- 006D = 6 (1 Tube with 6 Fibers)
- 008E = 8 (1 Tube with 8 Fibers)
- 012G = 12 (1 Tube with 12 Fibers)
- 016K = 16 (1 Tube with 16 Fibers)
- 024L = 24 (1 Tube with 24 Fibers)
- 048G = 48 (1 Tube with 48 Fibers)
- 072G = 72 (1 Tube with 72 Fibers)

### Applications Support

**STANDARDS COMPLIANCE**
- ANSI/TIA-568.3-D
- ANSI/TIA-598-D
- ANSI/TIA-492 AAAA
- Telcordia GR-409-CORE
- IEC 60793-2-10 Fiber Type A1a.3
- Telcordia GR-409-CORE
- IEC 60332-3
- IEC 60332-1-2 (Single strand)
- IEC 60754-2 (Acid gas)
- IEC 61034-2 (Smoke density)

**APPLICATIONS SUPPORT**

**LightSystem Multimode 62.5/125 OM1**
- 10GBASE-S (850 nm) 300
- 10GBASE-LX4 (1300 nm) 300
- 1000BASE-S (850 nm) 1000
- 1000BASE-LX (1300 nm) 600
- Fiber Channel 266 (1300 nm) 1,500
- ATM 622 (1300 nm) 500
- ATM 155 (1300 nm) 2,000
- ATM 52 (1300 nm) 3,000
- FDDI (Original-1300 nm) 2,000
- 100BASE-FX (1300 nm) 2,000

**XGLO 550 Multimode 50/125, OM4**
- 10GBASE-S (850 nm) 550
- 10GBASE-LX4 (1300 nm) 500
- 1000BASE-S (850 nm) 1000
- 1000BASE-LX (1300 nm) 600
- Fiber Channel 266 (1300 nm) 1,500
- ATM 622 (1300 nm) 500
- ATM 155 (1300 nm) 2,000
- ATM 52 (1300 nm) 3,000
- FDDI (Original-1300 nm) 2,000
- 100BASE-FX (1300 nm) 2,000

**XGLO Singlemode, OS1/OS2**
- 10GBASE-S (850 nm) 8,000
- 10GBASE-L (1310 nm) 10,000
- 10GBASE-L (1310 nm) 10,000
- 1000BASE-S (1300 nm) 5,000
- Fiber Channel 266 (1300 nm) 10,000
- FDDI (Original-1300 nm) 10,000
- ATM 52,155/622 (1300 nm) 15,000

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**Jaylaine P. Santos, 15832-3**

**Jacket (Black):**
- Material: LSZH - LSZH Compound
- Water blocking swellable yarn
- Central Strength Member
- Light-weight solid dielectric
- Identification
- Colour-coded fibers and tubes

**Identification:**
- Colour-coded fibers
- Aramid Yarn
- Water blocking swellable yarn

**LightSystem Multimode 62.5/125 OM1, XGLO Multimode 50/125 OM3 and OM4, Singlemode OS1/OS2**
XGLO® & LightSystem® Indoor/Outdoor Tight Buffer - International

LightSystem Gigabit Ethernet Fiber Optic Cable

Minimum Performance Parameters for LightSystem 62.5/125μm Multimode Fiber

<table>
<thead>
<tr>
<th>Fiber Type</th>
<th>Wavelength (nm)</th>
<th>Maximum Attenuation (dB/km)</th>
<th>Minimum Modal Bandwidth (MHz.km)</th>
<th>Guaranteed Gigabit Transmission Distance (Meters/Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>62.5/125 (OM1)</td>
<td>850</td>
<td>3.5</td>
<td>200</td>
<td>275 (902)</td>
</tr>
<tr>
<td></td>
<td>1300</td>
<td>1.0</td>
<td>500</td>
<td>550 (1804)</td>
</tr>
</tbody>
</table>

*The protocol pertinent to the transmission distance as noted is Gigabit Ethernet per IEEE 802.3:2005.

Minimum Performance Parameters for XGLO 50/125μm Multimode Fiber

<table>
<thead>
<tr>
<th>Fiber Type</th>
<th>Guaranteed Gigabit Transmission Distance (m)</th>
<th>Guaranteed 10 Gigabit Transmission Distance (m)</th>
<th>Minimum Bandwidth (MHz.km)</th>
<th>Maximum Attenuation (dB/km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50/125 (OM3)</td>
<td>1000</td>
<td>600</td>
<td>300</td>
<td>300</td>
</tr>
<tr>
<td>50/125 (OM4)</td>
<td>1100</td>
<td>600</td>
<td>550</td>
<td>300</td>
</tr>
</tbody>
</table>

† 10GBASE-S †† 10GBASE-LX4

Minimum Performance Parameters for XGLO Singlemode Fiber

<table>
<thead>
<tr>
<th>Fiber Type</th>
<th>Wavelength (nm)</th>
<th>Maximum Attenuation (dB/km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Singlemode (OS1/OS2)</td>
<td>1310</td>
<td>0.40</td>
</tr>
<tr>
<td></td>
<td>1950</td>
<td>0.30</td>
</tr>
</tbody>
</table>

XGLO and LightSystem Indoor/Outdoor Tight Buffer (International) Physical Specifications

PHYSICAL SPECIFICATIONS (All Values Are Nominal)

<table>
<thead>
<tr>
<th>Fiber Count</th>
<th>Nominal Cable Diameter (mm)</th>
<th>Maximum Pulling Tension Newtons</th>
<th>Nominal Net Weight (kg/km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation</td>
<td>Long Term</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>5.3</td>
<td>1500</td>
<td>495</td>
</tr>
<tr>
<td>6</td>
<td>5.3</td>
<td>1500</td>
<td>495</td>
</tr>
<tr>
<td>8</td>
<td>5.8</td>
<td>1500</td>
<td>495</td>
</tr>
<tr>
<td>12</td>
<td>6.6</td>
<td>1500</td>
<td>495</td>
</tr>
<tr>
<td>16</td>
<td>7.8</td>
<td>1500</td>
<td>396</td>
</tr>
<tr>
<td>24</td>
<td>8.8</td>
<td>1500</td>
<td>495</td>
</tr>
<tr>
<td>48</td>
<td>18.3</td>
<td>4200</td>
<td>1400</td>
</tr>
<tr>
<td>72</td>
<td>21.9</td>
<td>5400</td>
<td>1800</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fiber Count</th>
<th>Maximum Crush Resistance (N/mm)</th>
<th>Operation Temperature (°C/°F)</th>
<th>Installation Temperature (°C/°F)</th>
<th>Storage Temperature °C</th>
<th>Minimum Bend Radius</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation</td>
<td>Long Term</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4-12</td>
<td>5</td>
<td>-40 to 70 (-40 to 158)</td>
<td>-40 to 70 (-40 to 158)</td>
<td>20 x DIA.</td>
<td>10 x DIA.</td>
</tr>
<tr>
<td>16-72</td>
<td>10</td>
<td>-20 to 70 (-4 to 158)</td>
<td>-20 to 70 (-4 to 158)</td>
<td>20 x DIA.</td>
<td>10 x DIA.</td>
</tr>
</tbody>
</table>

Custom lengths and jacket colours are available upon request. Contact our Customer Service Department for more information.