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

Siemon LSOH (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>Length (M)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LightSystem Multimode 62.5/125 OM1, XGLO Multimode 50/125 OM3 and OM4, Singlemode OS1/OS2</td>
<td>9GD(X)H(XXXX)-(XXXX)M</td>
</tr>
</tbody>
</table>

**Cable Rating**

- LSOH

**Jacket (Black)**
- Material: LSOH - LSOH Compound
- Water blocking swellable yarn

**Identification**
- Colour-coded fibers and tubes

**Aramid Yarn**
- Water blocking swellable yarn

**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 (4 Tubes with 12 Fibers)
- 072G = 72 (6 Tubes with 12 Fibers)

**Performance**
- GT01 = OM1 62.5/125µm
- T301 = OM3 50/125µm Laser Optimised
- T501 = OM4 50/125µm Laser Optimised
- E201 = OS1/OS2 Singlemode

**Application Distances (m)**

<table>
<thead>
<tr>
<th>Fiber Type</th>
<th>100BASE-FX (1300 nm)</th>
<th>1000BASE-LX (1300 nm)</th>
<th>10GBASE-L (1310 nm)</th>
<th>10GBASE-S (850 nm)</th>
<th>10GBASE-LX4 (1300 nm)</th>
<th>10GBASE-S (850 nm)</th>
<th>ATM 622 (1300 nm)</th>
<th>ATM 155 (1300 nm)</th>
<th>ATM 52 (1300 nm)</th>
<th>ATM 52/I55/622 (1300 nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>62.5/125µm</td>
<td>2,000</td>
<td>600</td>
<td>8,000</td>
<td>550</td>
<td>300</td>
<td>550</td>
<td>500</td>
<td>2,000</td>
<td>3,000</td>
<td>15,000</td>
</tr>
<tr>
<td>50/125µm</td>
<td>2,000</td>
<td>600</td>
<td>8,000</td>
<td>550</td>
<td>300</td>
<td>550</td>
<td>500</td>
<td>2,000</td>
<td>3,000</td>
<td>15,000</td>
</tr>
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<td>50/125µm</td>
<td>2,000</td>
<td>600</td>
<td>8,000</td>
<td>550</td>
<td>300</td>
<td>550</td>
<td>500</td>
<td>2,000</td>
<td>3,000</td>
<td>15,000</td>
</tr>
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<td>600</td>
<td>8,000</td>
<td>550</td>
<td>300</td>
<td>550</td>
<td>500</td>
<td>2,000</td>
<td>3,000</td>
<td>15,000</td>
</tr>
</tbody>
</table>

**Standards Compliance**

- IEC 61034-2 (Smoke density)
- IEC 60754-2 (Acid gas)
- ANSI/TIA-492 AAAC
- ANSI/TIA-598-D
- ANSI/TIA-568.3-D

**Fiber Count (Subunit)**

- 4 - 24 Strands
- 48 - 72 Strands

**Fiber Type**

- OS1/OS2 Singlemode
- LightSystem Multimode 62.5/125 OM1
- XGLO Multimode 50/125 OM3 and OM4

**Performance**

- Water blocking swellable yarn
- Central Strength Member
- Light-weight solid dielectric
- Applied longitudinally under cable jacket

**Material**

- LSOH - LSOH Compound

**Identification**

- Colour-coded fibers and tubes

**Aramid Yarn**

- Water blocking swellable yarn

**Jacket (Black)**

- Material: LSOH - LSOH Compound

**Central Strength Member**

- Material: LSOH - LSOH Compound
- Water blocking swellable yarn

**Aramid Yarn**

- Water blocking swellable yarn

**Jacket (Black)**

- Material: LSOH - LSOH Compound
- Water blocking swellable yarn

**LightSystem Multimode 62.5/125, OM1 Standards Compliance**

- ANSI/TIA-568.3-D
- ANSI/TIA-598-D
- ANSI/TIA-492 AAAAA
- Tekonsha GR-409-CORE
- IEC 60332-3
- IEC 60332-1-2 (Single strand)
- IEC 60793-2-10 Fiber Type A1a.2
- IEC 60793-2-10 Fiber Type A1a.3
- IEC 60793-2-10 Fiber Type A1a.4
- IEC 60793-2-10 Fiber Type A2a.3
- IEC 60793-2-10 Fiber Type A2a.4

**XGLO Singlemode, OS1/OS2 Standards Compliance**

- IEC/IEEE 11801 Ed.2.0 Amendment 1:2008
- ANSI/TIA-568.3-D
- ANSI/TIA-598-D
- ANSI/TIA-492 AAAAA
- Tekonsha GR-409-CORE
- ILO-6.652 C/D
- LSOH IEC 60332-3
- IEC 60332-1-2 (Single strand)
- IEC 60754-2 (Acid gas)
- IEC 61034-2 (Smoke density)
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 (OM)</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 (1800)</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 (OM)</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>300</td>
<td>RML - 2000</td>
<td>OFL - 500</td>
</tr>
<tr>
<td></td>
<td>600</td>
<td>300</td>
<td>OFL - 1500</td>
<td>OFL - 500</td>
</tr>
<tr>
<td>50/125 (OM4)</td>
<td>1100</td>
<td>550</td>
<td>RML - 4700</td>
<td>OFL - 500</td>
</tr>
<tr>
<td></td>
<td>600</td>
<td>300</td>
<td>OFL - 3500</td>
<td>OFL - 500</td>
</tr>
</tbody>
</table>

Minimum Performance Parameters for XGLO Singlemode Fiber

<table>
<thead>
<tr>
<th>Fiber Type (OS1/OS2)</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>1550</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></td>
<td>Installation</td>
<td>Long Term</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/mm²)</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>4-12</td>
<td>5</td>
<td>-40 to 70 (-40 to 158)</td>
<td>-10 to 60 (-14 to 140)</td>
<td>-40 to 70 (-40 to 158)</td>
<td>20 x DIA.</td>
</tr>
<tr>
<td>16-72</td>
<td>10</td>
<td>-20 to 70 (-4 to 158)</td>
<td>-10 to 60 (-14 to 140)</td>
<td>-20 to 70 (-4 to 158)</td>
<td>20 x DIA.</td>
</tr>
</tbody>
</table>

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