Siemon indoor/outdoor tight buffer fiber cables are ideal for data centers, 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, Gigabit ATM and Fiber Channel. Siemon indoor/outdoor cable water blocking is primarily for dry duct applications for moisture and temporary water migration protection.

### Ordering Information

**LightSystem Multimode 62.5/125 OM1**

- **XGLO Multimode Laser Optimized 50/125 OM3, OM4, Singlemode OS1/OS2**

#### Part # | Fiber Count | Construction
--- | --- | ---
9GDXXXX002B-XXXXXXA | 2 | 1 tube of 2 fibers
9GDXXXX004C-XXXXXXA | 4 | 1 tube of 4 fibers
9GDXXXX006D-XXXXXXA | 6 | 1 tube of 6 fibers
9GDXXXX008E-XXXXXXA | 8 | 1 tube of 8 fibers

#### Part # | Fiber Count | Construction
--- | --- | ---
9GDXXXX012G-XXXXXXA | 12 | 1 tube of 12 fibers
9GDXXXX024L-XXXXXXA | 24 | 1 tube of 24 fibers
9GDXXXX048G-XXXXXXA | 48 | 4 tubes of 12 fibers
9GDXXXX072G-XXXXXXA | 72 | 6 tubes of 12 fibers

### HIGHLIGHTS

- 900μm tight buffer
- 250μm coated optical fiber
- Length markings in 2 ft. increments
- Color code Per TIA-598-C

### Standards Compliance

- ISO/IEC 11801:2002 OM1
- ANSI/TIA/EIA-568.3-D
- ANSI/TIA-598-D
- ANSI/TIA-492 AAAD
- IEC 60793-2-10 Fiber Type A1a.2
- Telcordia GR-409-CORE
- OFNR: Communications Type OFNR (UL) and CSA FT4 c(UL)
- OFNP: Communications Type OFNP (UL) and CSA FT6 c(UL)

### Applications Support

- **XGLO 300 Multimode 50/125, OM3**
  - Application: Distance (m)
    - 10GBASE-SX (850 nm): 300
    - 10GBASE-LX4 (1300 nm): 1000
    - 1000BASE-SX (850 nm): 1000
    - 1000BASE-LX (1300 nm): 600
    - 10GBASE-E (1300 nm): 1000
    - 10GBASE-T (1000BASE-T): 100
    - 10GBASE-T (1000BASE-T): 100
    - 10GBASE-X (1000BASE-X): 100

- **XGLO 350 Multimode 50/125, OM4**
  - Application: Distance (m)
    - 10GBASE-SX (850 nm): 550
    - 10GBASE-LX4 (1300 nm): 1100
    - 1000BASE-SX (850 nm): 600
    - 1000BASE-LX (1300 nm): 1500
    - 10GBASE-T (1000BASE-T): 500
    - 10GBASE-T (1000BASE-T): 2000
    - 10GBASE-X (1000BASE-X): 2000

- **XGLO Singlemode, OS1/OS2**
  - Application: Distance (m)
    - 10GBASE-SX (1310 nm): 8000
    - 10GBASE-LX4 (1300 nm): 3000
    - 10GBASE-T (1000BASE-T): 10000
    - 10GBASE-X (1000BASE-X): 5000
    - Fiber Channel 266/562 (1300 nm): 10000
    - Fiber Channel 266/562 (1300 nm): 15000

### Identification

- Color-coded fibers
- Color-coded buffer tubes

---

W W W . S I E M O N . C O M
**LightSystem® Gigabit Ethernet Fiber Optic Distribution Cable (North America)**

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)</th>
</tr>
</thead>
<tbody>
<tr>
<td>62.5/125 (OM1)</td>
<td>850</td>
<td>3.5</td>
<td>200</td>
<td>275</td>
</tr>
<tr>
<td></td>
<td>1300</td>
<td>1.0</td>
<td>500</td>
<td>550</td>
</tr>
</tbody>
</table>

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

**XGLO® 10 Gigabit Ethernet Fiber Optic Cable (North America)**

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></td>
<td>1100</td>
<td>600</td>
<td>550</td>
<td>300</td>
</tr>
</tbody>
</table>

**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>0.5</td>
</tr>
<tr>
<td></td>
<td>1550</td>
<td>0.4</td>
</tr>
</tbody>
</table>

*Attenuation specifications are in compliance with TIA-492-C4A8

**XGLO and LightSystem Physical Specifications**

**PHYSICAL SPECIFICATIONS (All Values Are Nominal)**

<table>
<thead>
<tr>
<th>Fiber Count</th>
<th>Nominal Cable Diameter (mm/in.)</th>
<th>Maximum Pulling Tension (Newtons (lbs))</th>
<th>Maximum Net Weight kg/km (lbs/1000 ft.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Installation</td>
<td>Long Term</td>
</tr>
<tr>
<td>OFN/OFNP</td>
<td>OFN/OFNP</td>
<td>OFN/OFNP</td>
<td>OFN</td>
</tr>
<tr>
<td>2</td>
<td>4.8 (0.19)</td>
<td>1335 (300)</td>
<td>401 (90)</td>
</tr>
<tr>
<td>4</td>
<td>4.8 (0.19)</td>
<td>1335 (300)</td>
<td>401 (90)</td>
</tr>
<tr>
<td>6</td>
<td>4.8 (0.19)</td>
<td>1335 (300)</td>
<td>401 (90)</td>
</tr>
<tr>
<td>8</td>
<td>5.8 (0.23)</td>
<td>1335 (300)</td>
<td>401 (90)</td>
</tr>
<tr>
<td>12</td>
<td>5.8 (0.23)</td>
<td>1335 (300)</td>
<td>401 (90)</td>
</tr>
<tr>
<td>24</td>
<td>8.4 (0.33)</td>
<td>1282 (288)</td>
<td>641 (144)</td>
</tr>
<tr>
<td>48</td>
<td>16.5 (0.65)</td>
<td>2071 (460)</td>
<td>890 (200)</td>
</tr>
<tr>
<td>72</td>
<td>19.7 (0.78)</td>
<td>2071 (460)</td>
<td>890 (200)</td>
</tr>
</tbody>
</table>

**Fiber Count**

<table>
<thead>
<tr>
<th>Fiber Count</th>
<th>Maximum Crush Resistance (N/mm²)</th>
<th>Operating Temperature °C (°F)</th>
<th>Installation Temperature °C (°F)</th>
<th>Storage Temperature °C (°F)</th>
<th>Minimum Bend Radius</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-72</td>
<td>22</td>
<td>-40 to 80 (-40 to 176)</td>
<td>-10 to 80 (14 to 176)</td>
<td>-40 to 80 (-40 to 176)</td>
<td>20 x DIAM.</td>
</tr>
</tbody>
</table>

Because we continuously improve our products, Siemon reserves the right to change specifications and availability without prior notice.