# XGLO® & LightSystem® Interlocking Aluminum Armor Indoor Tight Buffer Fiber Cable (Global)

Siemon interlocking aluminum armor indoor tight buffer fiber cables are ideal for data centers, campus and building backbones as well as industrial applications. The interlocking armor cable is a robust aluminum armor design that provides higher compression crush strength, rodent resistance and increased security. Siemon interlocking armor fiber cables may be installed as an alternative to traditional fiber cables in plenum inner duct or conduit, providing a less expensive single-pull solution with estimated savings of 25-50% in materials and estimated labor savings up to 60%. Siemon fiber optic cables are offered in LightSystem and XGLO configurations supporting high-speed applications such as Gigabit Ethernet, 10 Gigabit Ethernet, Gigabit ATM and Fibre Channel.

## Ordering Information

**LightSystem Multimode 62.5/125 OM1, XGLO Multimode Laser Optimized 50/125 OM3, OM4 (Aqua Jacket), Singlemode OS1/OS2 (Yellow Jacket)**

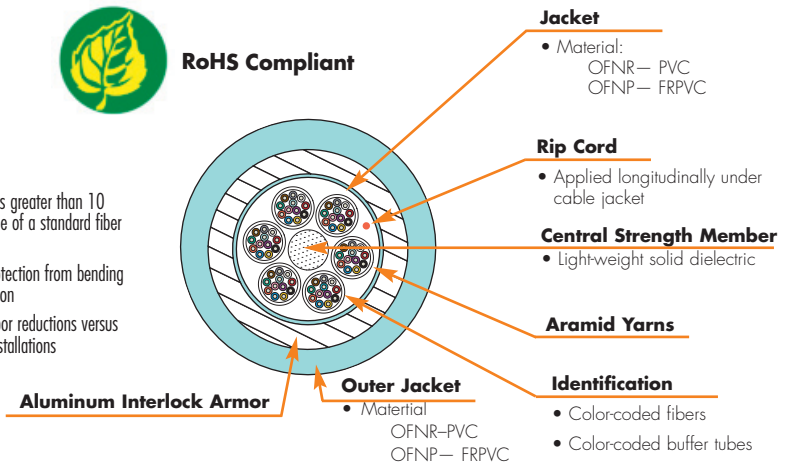
| Part # | Fiber Count | Construction |
|---|---|---|
| 9BC(X)(X)006D-(XXXX)A | 6 | 1 tube of 6 fibers |
| 9BC(X)(X)012G-(XXXX)A | 12 | 1 tube of 12 fibers |
| 9BC(X)(X)024L-(XXXX)A | 24 | 1 tube of 24 fibers |
| 9BC(X)(X)036G-(XXXX)A | 36 | 3 tubes of 12 fibers |
| 9BC(X)(X)048G-(XXXX)A | 48 | 4 tubes of 12 fibers |
| 9BC(X)(X)072G-(XXXX)A | 72 | 6 tubes of 12 fibers |
| 9BC(X)(X)096G-(XXXX)A | 96 | 8 tubes of 12 fibers |
| 9BC(X)(X)144G-(XXXX)A | 144 | 12 tubes of 12 fibers |

*Use 1st (X) to specify fiber type: 6 = 62.5/125µm, 5 = 50/125µm, 8 = Singlemode*
*Use 2nd (X) to specify cable rating: R = OFCR, P = OFCP*
*Use (XXXX) to specify class performance: G109 = OM1 62.5µm, T312 = OM3 50µm Laser Optimized, T512 = OM4 50µm Laser Optimized, E205 = OS1/OS2 Singlemode*
*Note: Contact Siemon Customer Service for cables available in fixed reel lengths. (unit of measure) F=feet*

### HIGHLIGHTS

- 900 µm tight buffer
- OFCR: Communications Type OFCR Engineering Testing Laboratories (ETL) or Underwriters Laboratories (UL) Type OFCR (Conductive Optical Fiber Riser Cable) and c(ETL or UL) OFC-FT6 75C.
- OFCP: Communications Type OFCP Engineering Testing Laboratories (ETL) or Underwriters Laboratories (UL) Type OFCP (Conductive Optical Fiber Plenum Cable) and c(ETL or UL) OFC-FT6 75C.
- Aluminum interlock offers greater than 10 times the crush resistance of a standard fiber cable
- Provides installation protection from bending and excessive pull tension
- Significant time and labor reductions versus conduit or inner duct installations

RoHS Compliant




### LIGHTSYSTEM Multimode 62.5/125, OM1

**STANDARDS COMPLIANCE**

- ISO/IEC 11801:2002 OM1 (62.5/125)
- ANSI/TIA/EIA-568-C.3
- ANSI/TIA-598-C
- ANSI/TIA-492AAAB
- 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**

| APPLICATION | DISTANCE (m) |
|---|---|
| 10GBASE-SX (850 nm) | N/A |
| 62.5/125µm | 26 |
| 1000BASE-SX (850 nm) | N/A |
| 62.5/125µm | 275 |
| 1000BASE-LX (1300 nm) | 550 |
| Fibre 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 300 Multimode 50/125, OM3

**STANDARDS COMPLIANCE**

- ISO/IEC 11801:2002 OM3
- ANSI/TIA/EIA-568-C.3
- ANSI/TIA-598-C
- ANSI/TIA-492AAAC
- 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**

| APPLICATION | DISTANCE (m) |
|---|---|
| 10GBASE-SX (850 nm) | 300 |
| 10GBASE-LX4 (1300 nm) | 300 |
| 1000BASE-SX (850 nm) | 1000 |
| 1000BASE-LX (1300 nm) | 600 |
| Fibre 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

**STANDARDS COMPLIANCE**

- ISO/IEC 11801:2002 OM3
- ISO/IEC 11801:2002 Ammendment 2 OM4
- ANSI/TIA/EIA-568-C.3
- ANSI/TIA-598-C
- ANSI/TIA-492 AAAD
- IEC 60793-2-10 Fiber Type A1a.3
- 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**

| APPLICATION | DISTANCE (m) |
|---|---|
| 10GBASE-SX (850 nm) | 550 |
| 10GBASE-LX4 (1300 nm) | 300 |
| 1000BASE-SX (850 nm) | 1100 |
| 1000BASE-LX (1300 nm) | 600 |
| Fibre 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

**STANDARDS COMPLIANCE**

- ISO/IEC 11801:Ed 2.0 Amendment:1:2008
- ANSI/TIA/EIA-568-C.3
- ANSI/TIA-598-C
- ANSI/TIA-492 CAAB
- Telcordia GR-409-CORE
- ITU-T G.652.C/D
- OFNR: Communications Type OFNR (UL) and CSA FT4 c(UL
- OFNP: Communications Type OFNP (UL) and CSA FT6 c(UL)

**APPLICATIONS SUPPORT**

| APPLICATION | DISTANCE (m) |
|---|---|
| 10GBASE-L (1310 nm) | 8,000 |
| 10GBASE-E (1550 nm) | 30,000 |
| 10G Fibre Channel (Serial-1310 nm) | 10,000 |
| 10G Fibre Channel (WDM-1310 nm) | 10,000 |
| 1000BASE-LX (1300 nm) | 5,000 |
| Fibre Channel 266/1062 (1300 nm) | 10,000 |
| ATM 52/155/622 (1300 nm) | 15,000 |

# LightSystem® Gigabit Ethernet Fiber Optic Distribution Cable (Global)

### Minimum Performance Parameters for LightSystem 62.5/125µm Multimode Fiber

| Fiber Type | Wavelength nm | Maximum Attenuation (dB/km) | Minimum Modal Bandwidth (MHz • km) | Guaranteed Gigabit Transmission Distance (Meters) |
|---|---|---|---|---|
| 62.5/125 (0M1) | 850 | 3.5 | 200 | 275 |
| | 1300 | 1.0 | 500 | 550 |

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

# XGLO® 10 Gigabit Ethernet Fiber Optic Cable (Global)

### Minimum Performance Parameters for XGLO 50/125µm Multimode Fiber

| Fiber Type | Guaranteed Gigabit Transmission Distance (m) | | Guaranteed 10 Gigabit Transmission Distance (m) | | Minimum Bandwidth (MHz •km) | | Maximum Attenuation (dB/km) | |
|---|---|---|---|---|---|---|---|---|
| | 850 nm | 1300 nm | 850 nm† | 1300 nm†† | 850 nm | 1300 nm | 850 nm | 1300 nm |
| 50/125 (OM3) | 1000 | 600 | 300 | 300 | RML - 2000<br>OFL - 1500 | OFL - 500 | 3.0 | 1.0 |
| 50/125 (OM4) | 1100 | 600 | 550 | 300 | RML - 4700<br>OFL - 3500 | OFL - 500 | 3.0 | 1.0 |

**† 10GBASE-S †† 10GBASE-LX4**

### Minimum Performance Parameters for XGLO Singlemode Fiber

| Fiber Type | Wavelength nm | Maximum Attenuation (dB/km) |
|---|---|---|
| Singlemode (0S1/0S2) | 1310 | 0.50 |
| | 1550 | 0.40 |

**Attenation specifications are in compliance with TIA-492 CAAB*

# XGLO and LightSystem Physical Specifications (Global)

### PHYSICAL SPECIFICATIONS (All Values Are Nominal)

| Fiber Count | Nominal Cable Diameter mm (in.) | | Maximum Pulling Tension Newtons (lbf.) | | Maximum = Net Weight kg/km (lb/1000 ft.) | |
|---|---|---|---|---|---|---|
| | OFCR | OFCP | Installation | Long Term | OFCR | OFCP |
| 6 | 15.8 (0.624) | 13.1 (0.517) | 1335 (300) | 400 (90) | 179 (120) | 117 (79) |
| 8 | 15.8 (0.624) | 13.3 (0.523) | 1335 (300) | 400 (90) | 188 (126) | 129 (87) |
| 12 | 18.8 (0.740) | 14.8 (0.584) | 1780 (400) | 534 (120) | 248 (166) | 176 (119) |
| 24 | 24.4 (0.961) | 20.9 (0.821) | 2640 (600) | 800 (180) | 412 (277) | 347 (233) |
| 48 | 24.4 (0.961) | 23.4 (0.921) | 2640 (600) | 800 (180) | 448 (301) | 408 (274) |
| 72 | 32.1 (1.265) | 24.7 (0.974) | 2640 (600) | 800 (180) | 643 (432) | 537 (361) |
| 96 | 32.1 (1.265) | 31.1 (1.230) | 2640 (600) | 800 (180) | 775 (521) | 749 (503) |
| 144 | 32.1 (1.265) | 31.1 (1.230) | 4445 (1000) | 1335 (300) | 802 (539) | 756 (508) |

| Fiber Type | Maximum Crush Resistance (N/mm) | Operating Temperature °C (°F) | | Installation Temperature °C (°F) | | Storage Temperature °C (°F) | | Minimum Bend Radius | |
|---|---|---|---|---|---|---|---|---|---|
| | | OFCR | OFCP | OFCR | OFCP | OFCR | OFCP | Installation | Long Term |
| 6 - 144 | 44 | -40 to 75 (-40 to 167) | -20 to 75 (-4 to 167) | -20 to 75 (-4 to 167) | -0 to 75 (-32 to 167) | -40 to 85 (-40 to 185) | -20 to 75 (-4 to 167) | 20 x DIA. | 10 x DIA. |

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