

XGLO® & LightSystem® Indoor/Outdoor Tight Buffer (International)

Siemon LSOH (IEC 60332-3) 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.

Ordering Information

LightSystem Multimode 62.5/125 OM1, Multimode 50/125 OM2, XGLO Multimode 50/125 OM3 and OM4, Singlemode OS1/OS2

| Part # | Fiber Count | Construction |
|---------------------|-------------|---------------------|
| 9GD(X)H004C-(XXXX)M | 4 | 1 tube of 4 fibers |
| 9GD(X)H006D-(XXXX)M | 6 | 1 tube of 6 fibers |
| 9GD(X)H008E-(XXXX)M | 8 | 1 tube of 8 fibers |
| 9GD(X)H012G-(XXXX)M | 12 | 1 tube of 12 fibers |

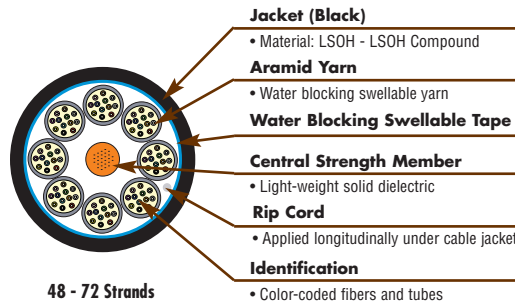
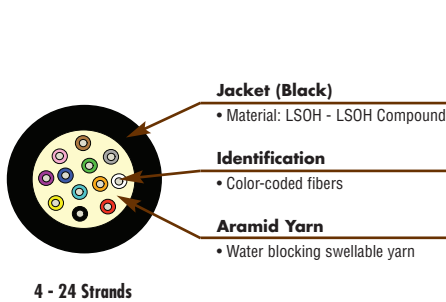
| Part # | Fiber Count | Construction |
|---------------------|-------------|----------------------|
| 9GD(X)H016K-(XXXX)M | 16 | 1 tube of 16 fibers |
| 9GD(X)H024L-(XXXX)M | 24 | 1 tube of 24 fibers |
| 9GD(X)H048G-(XXXX)M | 48 | 4 tubes of 12 fibers |
| 9GD(X)H072G-(XXXX)M | 72 | 6 tubes of 12 fibers |

Use 1st (X) to specify fiber type: 6 = 62.5/125µm, 5 = 50/125µm, 8 = Singlemode

Use (XXXX) to specify class performance: G101 = OM1 62.5µm, T101 = OM2 50µm, T301 = OM3 50µm Laser Optimized, T501 = OM4 50µm Laser Optimized, E201 = OS1/OS2 Singlemode

M= meters

Note: Contact Siemon Customer Service for cables available in fixed reel lengths.



| LIGHTSYSTEM Multimode 62.5/125, OM1 50/125, OM2 | | XGLO 300 Multimode 50/125, OM3 | | XGLO 550 Multimode 50/125, OM4 | | XGLO Singlemode, OS1/OS2 | |
|---|--------------|---|--------------|--|--------------|--|--------------|
| STANDARDS COMPLIANCE | | STANDARDS COMPLIANCE | | STANDARDS COMPLIANCE | | STANDARDS COMPLIANCE | |
| <ul style="list-style-type: none"> ISO/IEC 11801:2002 OM1 (62.5/125) ISO/IEC 11801:2002 OM2 (50/125) ANSI/TIA/EIA-568-C.3 ANSI/TIA-598-C ANSI/TIA-492 AAAB Telcordia GR-409-CORE IEC 60332-3 IEC 60332-1-2 (Single strand) IEC 60754-2 (Acid gas) IEC 61034-2 (Smoke density) | | <ul style="list-style-type: none"> ISO/IEC 11801:2002 OM3 ANSI/TIA/EIA-568-C.3 ANSI/TIA-598-C ANSI/TIA-492 AAAC Telcordia GR-409-CORE IEC 60332-3 IEC 60332-1-2 (Single strand) IEC 60754-2 (Acid gas) IEC 61034-2 (Smoke density) | | <ul style="list-style-type: none"> ISO/IEC 11801:2002 OM3 ISO/IEC 11801:2002 Amendment 2 OM4 ANSI/TIA/EIA-568-C.3 ANSI/TIA-598-C ANSI/TIA-492 AAAD IEC 60793-2-10 Fibre 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) | | <ul style="list-style-type: none"> ISO/IEC 11801:Ed 2.0 Amendment:1:2008 ANSI/TIA/EIA-568-C.3 ANSI/TIA-598-C Telcordia GR-409-CORE ITU-T G.652 C/D LSOH IEC 60332-3 IEC 60332-3 IEC 60332-1-2 (Single strand) IEC 60754-2 (Acid gas) IEC 61034-2 (Smoke density) | |
| APPLICATIONS SUPPORT | | APPLICATIONS SUPPORT | | APPLICATIONS SUPPORT | | APPLICATIONS SUPPORT | |
| APPLICATION | DISTANCE (m) | APPLICATION | DISTANCE (m) | APPLICATION | DISTANCE (m) | APPLICATION | DISTANCE (m) |
| 10GBASE-S (850 nm) | N/A | 10GBASE-S (850 nm) | 300 | 10GBASE-S (850 nm) | 550 | 10GBASE-L (1310 nm) | 8,000 |
| 50/125µm | 82 | 10GBASE-LX4 (1300 nm) | 300 | 10GBASE-LX4 (1300 nm) | 300 | 10GBASE-E (1550 nm) | 30,000 |
| 62.5/125µm | 26 | 1000BASE-S (850 nm) | 1000 | 1000BASE-S (850 nm) | 1100 | 10G Fibre Channel (Serial-1310 nm) | 10,000 |
| 1000BASE-S (850 nm) | N/A | 1000BASE-LX (1300 nm) | 600 | 1000BASE-LX (1300 nm) | 600 | 10G Fibre Channel (WDM-1310 nm) | 10,000 |
| 50/125µm | 550 | Fibre Channel 266 (1300 nm) | 1,500 | Fibre Channel 266 (1300 nm) | 1,500 | 1000BASE-LX (1300 nm) | 5,000 |
| 62.5/125µm | 275 | ATM 622 (1300 nm) | 500 | ATM 622 (1300 nm) | 500 | Fibre Channel 266/1062 (1300 nm) | 10,000 |
| 1000BASE-LX (1300 nm) | 550 | ATM 155 (1300 nm) | 2,000 | ATM 155 (1300 nm) | 2,000 | ATM 52/155/622 (1300 nm) | 15,000 |
| Fibre Channel 266 (1300 nm) | 1,500 | ATM 52 (1300 nm) | 3,000 | ATM 52 (1300 nm) | 3,000 | | |
| ATM 622 (1300 nm) | 500 | FDD1 (Original-1300 nm) | 2,000 | FDD1 (Original-1300 nm) | 2,000 | | |
| ATM 155 (1300 nm) | 2,000 | 100BASE-FX (1300 nm) | 2,000 | 100BASE-FX (1300 nm) | 2,000 | | |
| ATM 52 (1300 nm) | 3,000 | | | | | | |
| FDD1 (Original-1300 nm) | 2,000 | | | | | | |
| 100BASE-FX (1300 nm) | 2,000 | | | | | | |

XGLO® & LightSystem® Indoor/Outdoor Tight Buffer (International)

LightSystem® Gigabit Ethernet Fiber Optic Cable

Minimum Performance Parameters for LightSystem 62.5/125µm & 50/125µm Multimode Fiber

| Fibre Type | Wavelength nm | Maximum Attenuation (dB/km) | Minimum Modal Bandwidth (MHz·km) | Guaranteed Gigabit Transmission Distance (Meters) | Index of Refraction |
|----------------|---------------|-----------------------------|----------------------------------|---|---------------------|
| 62.5/125 (OM1) | 850 | 3.5 | 200 | 275 | 1.495 |
| | 1300 | 1.0 | 500 | 550 | 1.490 |
| 50/125 (OM2) | 850 | 3.5 | 500 | 550 | 1.483 |
| | 1300 | 1.0 | 500 | 550 | 1.479 |

*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

| Fibre Type | Guaranteed Gigabit Transmission Distance (m) | | Guaranteed 10 Gigabit Transmission Distance (m) | | Minimum Bandwidth (MHz·km) | | Maximum Attenuation (dB/km) | | Group Index of Refraction | |
|--------------|--|---------|---|-----------|----------------------------|-----------|-----------------------------|---------|---------------------------|---------|
| | 850 nm | 1300 nm | 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 OFL - 1500 | OFL - 500 | 3.0 | 1.0 | 1.483 | 1.479 |
| 50/125 (OM4) | 1100 | 600 | 550 | 300 | RML - 4700 OFL - 3500 | OFL - 500 | 3.0 | 1.0 | 1.483 | 1.479 |

† 10GBASE-S †† 10GBASE-LX4

Minimum Performance Parameters for XGLO Singlemode Fiber

| Fibre Type | Wavelength (nm) | Maximum Attenuation (dB/km) | Zero Dispersion Wavelength (nm) | Zero Dispersion Slope (nm ² -km) | Index of Refraction |
|----------------------|-----------------|-----------------------------|---------------------------------|---|---------------------|
| Singlemode (OS1/OS2) | 1310 | 0.40 | 1312 ± 10 | ≤0.089 | 1.468 |
| | 1550 | 0.30 | 1312 ± 10 | ≤0.089 | 1.468 |
| | 1310 - 1625 | <0.40 | 1312 ± 10 | ≤0.089 | 1.468 |

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

PHYSICAL SPECIFICATIONS (All Values Are Nominal)

| Fibre Count | Nominal Cable Diameter mm | Maximum Pulling Tension Newtons | | Nominal Net Weight kg/km |
|-------------|---------------------------|---------------------------------|-----------|--------------------------|
| | | Installation | Long Term | |
| 4 | 5.3 | 1500 | 495 | 23 |
| 6 | 5.3 | 1500 | 495 | 25 |
| 8 | 5.8 | 1500 | 495 | 30 |
| 12 | 6.2 | 1500 | 495 | 35 |
| 16 | 7.8 | 1500 | 495 | 49 |
| 24 | 8.8 | 1500 | 495 | 61 |
| 48 | 18.3 | 4200 | 1400 | 255 |
| 72 | 21.9 | 5400 | 1800 | 384 |

| Fibre Count | Maximum Crush Resistance (N/mm) | Operating Temperature °C | Storage Temperature °C | Minimum Bend Radius | |
|-------------|---------------------------------|--------------------------|------------------------|---------------------|-----------|
| | | | | Installation | Long Term |
| 4-12 | 5 | -40 to 70 | -40 to 70 | 20 x DIA. | 10 x DIA. |
| 16-72 | 10 | -20 to 70 | -20 to 70 | 20 x DIA. | 10 x DIA. |

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

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