

XGLO® & LightSystem® Indoor/Outdoor, Armor, LooseTube, EuroClass B2_{ca}s_{1a},d₁,a₁ - EMEA

Siemon LSOH-FR indoor/outdoor armor loose tube cables are ideal for 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:

9GGA(X)B(XXXX)(XXX)N LightSystem Multimode 62.5/125 OM1, XGLO Multimode 50/125 OM3, 50/125 OM4, Singlemode

A = Armor

Fiber Type
 6 = 62.5/125µm
 5 = 50/125µm
 8 = OS1/OS2 Singlemode

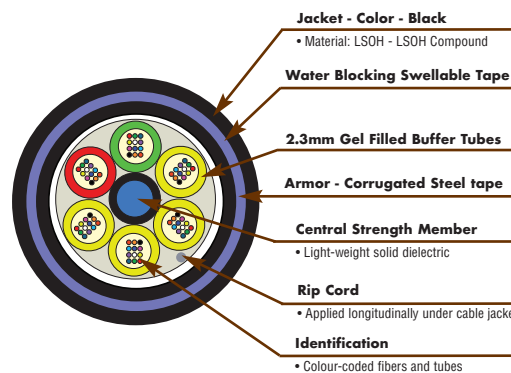
Cable Rating
 B = LSOH3c, B2ca

Length
 N = Meters

Performance
 G101 = OM1 62.5/125µm
 T301 = OM3 50/125µm Laser Optimised
 T501 = OM4 50/125µm Laser Optimised
 E201 = OS1/OS2 Singlemode

Fiber Count (Subunit)

004C = 2 (1 Tube with 4 Fibers)	024G = 24 (2 Tubes with 12 Fibers)
006D = 4 (1 Tube with 4 Fibers)	036G = 36 (3 Tubes with 12 Fibers)
006D = 6 (1 Tube with 6 Fibers)	048G = 48 (4 Tubes with 12 Fibers)
008E = 8 (1 Tube with 8 Fibers)	072G = 72 (6 Tubes with 12 Fibers)
012G = 12 (1 Tube with 12 Fibers)	096G = 96 (8 Tubes with 12 Fibers)
016E = 16 (2 Tubes with 8 Fibers)	144G = 144 (12 Tubes with 12 Fibers)



Note: The cable utilizes a corrugated steel tape for rodent proof. The cable can be used for direct burial with proper sand back filling

LIGHTSYSTEM Multimode, 62.5/125, OM1	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) ANSI/TIA-568.3-D ANSI/TIA-598-D ANSI/TIA-492 AAAA Telcordia GR-409-CORE IEC 60332-1-2 (Single strand) IEC 60754-1-2 (Non Halogens) IEC 60754-2 (Acid gas) IEC 61034-2 (Smoke density) EN 50575 EN 50399, Class Eca, D_{ca}, C_{ca} Class B2ca s_{1a}, d₁, a₁ 	<ul style="list-style-type: none"> ISO/IEC 11801:2002 OM3 ANSI/TIA-568.3-D ANSI/TIA-598-D ANSI/TIA-492 AAAC IEC 60793-2-10 Fiber Type A1a.2 Telcordia GR-409-CORE IEC 60332-1-2 (Single strand) IEC 60754-1-2 (Non Halogens) IEC 60754-2 (Acid gas) IEC 61034-2 (Smoke density) EN 50575 EN 50399, Class Eca, D_{ca}, C_{ca} Class B2ca s_{1a}, d₁, a₁ 	<ul style="list-style-type: none"> ISO/IEC 11801:2002 OM3 ISO/IEC 11801:2002 Amendment 2 OM4 ANSI/TIA-568.3-D ANSI/TIA-598-D ANSI/TIA-492 AAAD IEC 60793-2-10 Fiber Type A1a.3 Telcordia GR-409-CORE IEC 60332-1-2 (Single strand) IEC 60754-1-2 (Non Halogens) IEC 60754-2 (Acid gas) IEC 61034-2 (Smoke density) EN 50575 EN 50399, Class Eca, D_{ca}, C_{ca} Class B2ca s_{1a}, d₁, a₁ 	<ul style="list-style-type: none"> ISO/IEC 11801:Ed 2.0 Amendment 1:2008 ANSI/TIA-568.3-D ANSI/TIA-598-D ANSI/TIA-492 CAAB Telcordia GR-409-CORE ITU-T G.652 C/D IEC 60332-1-2 (Single strand) IEC 60754-1-2 (Non Halogens) IEC 60754-2 (Acid gas) IEC 61034-2 (Smoke density) EN 50575 EN 50399, Class Eca, D_{ca}, C_{ca} Class B2ca s_{1a}, d₁, a₁ 																																																																																				
APPLICATIONS SUPPORT	APPLICATIONS SUPPORT	APPLICATIONS SUPPORT	APPLICATIONS SUPPORT																																																																																				
<table border="1"> <thead> <tr> <th>APPLICATION</th> <th>DISTANCE (m)</th> </tr> </thead> <tbody> <tr><td>10 GBASE-S (850 nm)</td><td>N/A</td></tr> <tr><td>62.5/125µm</td><td>26</td></tr> <tr><td>1000 BASE-S (850 nm)</td><td>N/A</td></tr> <tr><td>62.5/125µm</td><td>275</td></tr> <tr><td>1000BASE-LX (1300 nm)</td><td>550</td></tr> <tr><td>Fiber Channel 266 (1300 nm)</td><td>1,500</td></tr> <tr><td>ATM 622 (1300 nm)</td><td>500</td></tr> <tr><td>ATM 155 (1300 nm)</td><td>2,000</td></tr> <tr><td>ATM 52 (1300 nm)</td><td>3,000</td></tr> <tr><td>FDDI (Original-1300 nm)</td><td>2,000</td></tr> <tr><td>100BASE-FX (1300 nm)</td><td>2,000</td></tr> </tbody> </table>	APPLICATION	DISTANCE (m)	10 GBASE-S (850 nm)	N/A	62.5/125µm	26	1000 BASE-S (850 nm)	N/A	62.5/125µm	275	1000BASE-LX (1300 nm)	550	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	<table border="1"> <thead> <tr> <th>APPLICATION</th> <th>DISTANCE (m)</th> </tr> </thead> <tbody> <tr><td>10 GBASE-S (850 nm)</td><td>300</td></tr> <tr><td>10 GBASE-LX4 (1300 nm)</td><td>300</td></tr> <tr><td>1000BASE-S (850 nm)</td><td>1000</td></tr> <tr><td>1000 BASE-LX (1300 nm)</td><td>600</td></tr> <tr><td>Fiber Channel 266 (1300 nm)</td><td>1,500</td></tr> <tr><td>ATM 622 (1300 nm)</td><td>500</td></tr> <tr><td>ATM 155 (1300 nm)</td><td>2,000</td></tr> <tr><td>ATM 52 (1300 nm)</td><td>3,000</td></tr> <tr><td>FDD1 (Original-1300 nm)</td><td>2,000</td></tr> <tr><td>100BASE-FX (1300 nm)</td><td>2,000</td></tr> </tbody> </table>	APPLICATION	DISTANCE (m)	10 GBASE-S (850 nm)	300	10 GBASE-LX4 (1300 nm)	300	1000BASE-S (850 nm)	1000	1000 BASE-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	FDD1 (Original-1300 nm)	2,000	100BASE-FX (1300 nm)	2,000	<table border="1"> <thead> <tr> <th>APPLICATION</th> <th>DISTANCE (m)</th> </tr> </thead> <tbody> <tr><td>10GBASE-S (850 nm)</td><td>550</td></tr> <tr><td>10GBASE-LX4 (1300 nm)</td><td>300</td></tr> <tr><td>1000BASE-S (850 nm)</td><td>1100</td></tr> <tr><td>1000BASE-LX (1300 nm)</td><td>600</td></tr> <tr><td>Fiber Channel 266 (1300 nm)</td><td>1,500</td></tr> <tr><td>ATM 622 (1300 nm)</td><td>500</td></tr> <tr><td>ATM 155 (1300 nm)</td><td>2,000</td></tr> <tr><td>ATM 52 (1300 nm)</td><td>3,000</td></tr> <tr><td>FDD1 (Original-1300 nm)</td><td>2,000</td></tr> <tr><td>100BASE-FX (1300 nm)</td><td>2,000</td></tr> </tbody> </table>	APPLICATION	DISTANCE (m)	10GBASE-S (850 nm)	550	10GBASE-LX4 (1300 nm)	300	1000BASE-S (850 nm)	1100	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	FDD1 (Original-1300 nm)	2,000	100BASE-FX (1300 nm)	2,000	<table border="1"> <thead> <tr> <th>APPLICATION</th> <th>DISTANCE (m)</th> </tr> </thead> <tbody> <tr><td>10GBASE-L (1310 nm)</td><td>8,000</td></tr> <tr><td>10GBASE-E (1550 nm)</td><td>30,000</td></tr> <tr><td>10G Fiber Channel (Serial-1310 nm)</td><td>10,000</td></tr> <tr><td>10G Fiber Channel (WDM-1310 nm)</td><td>10,000</td></tr> <tr><td>1000BASE-LX (1300 nm)</td><td>5,000</td></tr> <tr><td>Fiber Channel 266/1062 (1300 nm)</td><td>10,000</td></tr> <tr><td>ATM 52/155/622 (1300 nm)</td><td>15,000</td></tr> </tbody> </table>	APPLICATION	DISTANCE (m)	10GBASE-L (1310 nm)	8,000	10GBASE-E (1550 nm)	30,000	10G Fiber Channel (Serial-1310 nm)	10,000	10G Fiber Channel (WDM-1310 nm)	10,000	1000BASE-LX (1300 nm)	5,000	Fiber Channel 266/1062 (1300 nm)	10,000	ATM 52/155/622 (1300 nm)	15,000
APPLICATION	DISTANCE (m)																																																																																						
10 GBASE-S (850 nm)	N/A																																																																																						
62.5/125µm	26																																																																																						
1000 BASE-S (850 nm)	N/A																																																																																						
62.5/125µm	275																																																																																						
1000BASE-LX (1300 nm)	550																																																																																						
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																																																																																						
APPLICATION	DISTANCE (m)																																																																																						
10 GBASE-S (850 nm)	300																																																																																						
10 GBASE-LX4 (1300 nm)	300																																																																																						
1000BASE-S (850 nm)	1000																																																																																						
1000 BASE-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																																																																																						
FDD1 (Original-1300 nm)	2,000																																																																																						
100BASE-FX (1300 nm)	2,000																																																																																						
APPLICATION	DISTANCE (m)																																																																																						
10GBASE-S (850 nm)	550																																																																																						
10GBASE-LX4 (1300 nm)	300																																																																																						
1000BASE-S (850 nm)	1100																																																																																						
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																																																																																						
FDD1 (Original-1300 nm)	2,000																																																																																						
100BASE-FX (1300 nm)	2,000																																																																																						
APPLICATION	DISTANCE (m)																																																																																						
10GBASE-L (1310 nm)	8,000																																																																																						
10GBASE-E (1550 nm)	30,000																																																																																						
10G Fiber Channel (Serial-1310 nm)	10,000																																																																																						
10G Fiber Channel (WDM-1310 nm)	10,000																																																																																						
1000BASE-LX (1300 nm)	5,000																																																																																						
Fiber Channel 266/1062 (1300 nm)	10,000																																																																																						
ATM 52/155/622 (1300 nm)	15,000																																																																																						

XGLO® & LightSystem® Indoor/Outdoor, Armor, LooseTube, EuroClass B2_{ca}S_{1a},d₁,a₁ - EMEA

LightSystem Gigabit Ethernet Fiber Optic Cable

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 (Feet)
62.5/125 (OM1)	850	3.5	200	275 (902)
	1300	1.0	500	550 (1804)

*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

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 OFL - 1500	OFL - 500	3.0	1.0
50/125 (OM4)	1100	600	550	300	RML - 4700 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 (OS1/OS2)	1310	0.40
	1550	0.30

XGLO and LightSystem Indoor/Outdoor LooseTube Armor (EMEA) Physical Specifications

PHYSICAL SPECIFICATIONS (All Values Are Nominal)

Fiber Count	Nominal Cable Diameter mm	Maximum Pulling Tension Newtons		Nominal Net Weight kg/km
		Installation	Long Term	
4	14.5	1800	1200	249
6	14.5	1800	1200	249
8	14.5	1800	1200	249
12	14.5	1800	1200	249
16	14.5	1800	1200	253
24	14.5	1800	1200	253
36	14.5	1800	1200	256
48	14.5	1800	1200	260
72	14.5	1800	1200	266
96	14.5	1800	1200	275
144	19.0	1800	1200	404

Fiber Count	Maximum Crush Resistance (N/mm)	Operation Temperature °C (°F)	Installation Temperature °C (°F)	Storage Temperature °C (°F)	Minimum Bend Radius	
					Installation	Long Term
4-96	30	-40°C to +60°C (-40°F to +140°F) *, **	-30°C to +60°C (-22°F to +140°C) **	-40°C to +60°C (-40°F to +140°F) **	145	290
144	30	-40°C to +60°C (-40°F to +140°F) *, **	-30°C to +60°C (-22°F to +140°C) **	-40°C to +60°C (-40°F to +140°F) **	190	380

* In the interval -60 °C to 70 °C there is no attenuation variation (≤0.05 dB) for a single mode fibre, when tested according to the standard mentioned

** The temperature limits shall be understood as the actual temperature of the cable. During installation take into account the possible heating due to any installation in the direct sun. Custom lengths and jacket colours are available upon request. Contact our Customer Service Department for more information.