

# XGLO® & LightSystem® Indoor/Outdoor LooseTube, C<sub>ca</sub>S<sub>1a</sub>,d<sub>1</sub>,a<sub>1</sub> - EMEA

Siemon LSOH-FR indoor/outdoor 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 Laser indoor/outdoor water blocking is primarily for dry duct applications, moisture and temporary water migration protection.

## Ordering Information:

9GG(X)C(XXXX)-(XXXX)M ..... LightSystem Multimode 62.5/125 OM1,  
XGLO Multimode 50/125 OM3, 50/125 OM4, Singlemode

<b>Fiber Type</b>	<b>Length</b>
6 = 62.5/125µm	M = Meters
5 = 50/125µm	
8 = OS1/OS2 Singlemode	
<b>Cable Rating</b>	<b>Performance</b>
C = LSOH-3C Class C <sub>ca</sub>	G106 = OM1 62.5/125µm, Blue
	T306 = OM3 50/125µm Laser Optimised, Blue
	T506 = OM4 50/125µm Laser Optimised, Blue
	E206 = OS1/OS2 Singlemode, Blue

<b>Fiber Count (Subunit)</b>	<b>Jacket</b>
002B = 2 (1 Tube with 2 Fibers)	• Material: LSOH - LSOH Compound
004C = 4 (1 Tube with 4 Fibers)	<b>Water Blocking Swellable Tape</b>
006D = 6 (1 Tube with 6 Fibers)	<b>Gel Filled Buffer Tubes (2.3mm)</b>
008E = 8 (1 Tube with 8 Fibers)	<b>Core Waterblock elements</b>
012G = 12 (1 Tube with 12 Fibers)	• Water blocking swellable tape & tread
016K = 16 (1 Tube with 16 Fibers)	<b>Central Strength Member</b>
024L = 24 (1 Tube with 24 Fibers)	• Light-weight solid dielectric
	<b>Rip Cord</b>
	• Applied longitudinally under cable jacket
	<b>Identification</b>
	• Colour-coded fibers and tubes

**2 - 24 Strands**

**36 - 144 Strands**

Note: The 2-24 strand cables feature a glass yarn design with a high tensile strength that provides a degree of rodent protection which is effective in many cases. The function of glass yarns differs from the other rodent protection materials such as a 100% metallic armour protection. The glass yarns provide a degree of protection because it is disagreeable and unpleasant for most rodents to gnaw the glass yarns.

LIGHTSYSTEM Multimode, 62.5/125, OM1		XGLO 300 Multimode, 50/125, OM3		XGLO 550 Multimode, 50/125, OM4		XGLO Singlemode, OS1/OS2	
<b>STANDARDS COMPLIANCE</b>		<b>STANDARDS COMPLIANCE</b>		<b>STANDARDS COMPLIANCE</b>		<b>STANDARDS COMPLIANCE</b>	
<ul style="list-style-type: none"> <li>ISO/IEC 11801:2002 OM1 (62.5/125)</li> <li>ANSI/TIA-568.3-D</li> <li>ANSI/TIA-598-D</li> <li>ANSI/TIA-492 AAAA</li> <li>Tekcordia GR-409-CORE</li> <li>IEC 60794-6-10 (Water penetration F5B)</li> <li>IEC 60332-1-2 Class</li> <li>IEC 60332-3, IEC 60332-1-12 (Single Strand) IEC 60754-2 (Acid Gas) IEC 61034-2 (Smoke Density)</li> <li>EN 50399 Class E<sub>ca</sub>, D<sub>ca</sub> Class C<sub>ca</sub>, S<sub>1a</sub>, D<sub>1</sub>, a<sub>1</sub></li> </ul>		<ul style="list-style-type: none"> <li>ISO/IEC 11801:2002 OM3</li> <li>ANSI/TIA-568.3-D</li> <li>ANSI/TIA-598-D</li> <li>ANSI/TIA-492 AAAC</li> <li>IEC 60793-2-10 Fiber Type Ala.2</li> <li>IEC 60794-6-10 (Water penetration F5B)</li> <li>Tekcordia GR-409-CORE</li> <li>IEC 60332-1-2 Class</li> <li>IEC 60332-3, IEC 60332-1-12 (Single Strand) IEC 60754-2 (Acid Gas) IEC 61034-2 (Smoke Density)</li> <li>EN 50399 Class E<sub>ca</sub>, D<sub>ca</sub> Class C<sub>ca</sub>, S<sub>1a</sub>, D<sub>1</sub>, a<sub>1</sub></li> </ul>		<ul style="list-style-type: none"> <li>ISO/IEC 11801:2002 OM3</li> <li>ISO/IEC 11801:2002 Amendment 2 OM4</li> <li>ANSI/TIA-568.3-D</li> <li>ANSI/TIA-598-D</li> <li>ANSI/TIA-492 AAAD</li> <li>IEC 60793-2-10 Fiber Type A1a.3</li> <li>Tekcordia GR-409-CORE</li> <li>IEC 60794-6-10 (Water penetration F5B)</li> <li>IEC 60332-1-2 Class</li> <li>IEC 60332-3, IEC 60332-1-12 (Single Strand) IEC 60754-2 (Acid Gas) IEC 61034-2 (Smoke Density)</li> <li>EN 50399 Class E<sub>ca</sub>, D<sub>ca</sub> Class C<sub>ca</sub>, S<sub>1a</sub>, D<sub>1</sub>, a<sub>1</sub></li> </ul>		<ul style="list-style-type: none"> <li>ISO/IEC 11801:Ed 2.0 Amendment:1:2008</li> <li>ANSI/TIA-568.3-D</li> <li>ANSI/TIA-598-D</li> <li>ANSI/TIA-492 CAAB</li> <li>Tekcordia GR-409-CORE</li> <li>ITU-T G.652 C/D</li> <li>IEC 60794-6-10 (Water penetration F5B)</li> <li>IEC 60332-1-2 Class</li> <li>IEC 60332-3, IEC 60332-1-12 (Single Strand) IEC 60754-2 (Acid Gas) IEC 61034-2 (Smoke Density)</li> <li>EN 50399 Class E<sub>ca</sub>, D<sub>ca</sub> Class C<sub>ca</sub>, S<sub>1a</sub>, D<sub>1</sub>, a<sub>1</sub></li> </ul>	
<b>APPLICATIONS SUPPORT</b>		<b>APPLICATIONS SUPPORT</b>		<b>APPLICATIONS SUPPORT</b>		<b>APPLICATIONS SUPPORT</b>	
APPLICATION	DISTANCE (m)	APPLICATION	DISTANCE (m)	APPLICATION	DISTANCE (m)	APPLICATION	DISTANCE (m)
10 GBASE-S (850 nm)	N/A	10 GBASE-S (850 nm)	300	10GBASE-S (850 nm)	550	10GBASE-L (1310 nm)	8,000
62.5/125µm	26	10 GBASE-LX4 (1300 nm)	300	10GBASE-LX4 (1300 nm)	300	10GBASE-E (1550 nm)	30,000
1000 BASE-S (850 nm)	N/A	1000BASE-S (850 nm)	1000	1000BASE-S (850 nm)	1100	10G Fiber Channel (Serial-1310 nm)	10,000
62.5/125µm	275	1000 BASE-LX (1300 nm)	600	1000BASE-LX (1300 nm)	600	10G Fiber Channel (WDM-1310 nm)	10,000
1000BASE-LX (1300 nm)	550	Fiber Channel 266 (1300 nm)	1,500	Fiber Channel 266 (1300 nm)	1,500	1000BASE-LX (1300 nm)	5,000
Fiber Channel 266 (1300 nm)	1,500	ATM 622 (1300 nm)	500	ATM 622 (1300 nm)	500	Fiber Channel 266/1062 (1300 nm)	10,000
ATM 622 (1300 nm)	500	ATM 155 (1300 nm)	2,000	ATM 155 (1300 nm)	2,000	ATM 52/155/622 (1300 nm)	15,000
ATM 155 (1300 nm)	2,000	ATM 52 (1300 nm)	3,000	ATM 52 (1300 nm)	3,000		
ATM 52 (1300 nm)	3,000	FDD1 (Original-1300 nm)	2,000	FDD1 (Original-1300 nm)	2,000		
FDD1 (Original-1300 nm)	2,000	100BASE-FX (1300 nm)	2,000	100BASE-FX (1300 nm)	2,000		
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## 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 (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	
2-24	7.5	3000	1000	90
36	10.6	1800	900	103
48	10.6	1800	900	105
72	10.6	1800	900	115
96	11.8	1800	900	145
144	15.2	1800	900	240

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
2-24	30	-40 to 70 (-40 to 158)	-20 to 60 (-40 to 140)	-40 to 70 (-40 to 158)	20 x DIA.	10 x DIA.
36-144	20	-40 to 70 (-40 to 158)	-40 to 70 (-40 to 158)	-40 to 70 (-40 to 158)	20 x DIA.	10 x DIA.

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