XGLO® & LightSystem® Indoor/Outdoor Tight Buffer, $C_{ca}s_{1a},d_1,a_1$ - EMEA

Siemon LSOH-FR indoor/outdoor tight buffer fiber cables are ideal for data centres, 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:

9GD(X)C(XXXX)-(XXXX)M . . . . . LightSystem Multimode 62.5/125 OM1, XGLO Multimode 50/125 OM3 and OM4, Singlemode OS1/OS2

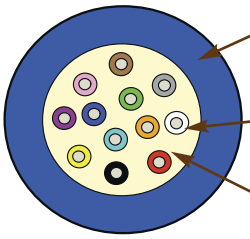
Fiber Type
6 = 62.5/125µm
5 = 50/125µm
8 = OS1/OS2 Singlemode

Length
M = Meters

Cable Rating
C = LSOH-3C Class C_{ca}

Class Performance
G106 = OM1 62.5/125µm
T306 = OM3 50/125µm Laser Optimised
T506 = OM4 50/125um Laser Optimised
E206 = OS1/OS2 Singlemode

Fiber Count (Subunit)
002B = 2 (1 Tube with 2 Fibers)
004C = 4 (1 Tube with 4 Fibers)
006D = 6 (1 Tube with 6 Fibers)
008E = 8 (1 Tube with 8 Fibers)
012G = 12 (1 Tube with 12 Fibers)
016K = 16 (1 Tube with 16 Fibers)
024L = 24 (1 Tube with 24 Fibers)



Jacket (Blue)
• Material: LSOH - LSOH Compound

Identification
• Colour-coded fibers

Aramid Yarn
• Water blocking swellable yarn

2 - 24 Strands

Note: This cable features 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

STANDARDS COMPLIANCE

- 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
- IEC 60332-3, IEC 60332-1-12 (Single strand), IEC 60754-2 (Acid gas) IEC 61034-2 (Smoke Density)
- EN 50399
  Class E_{ca}, D_{ca}
  Class C_{ca} $s1_a$, d_1, a_1

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10GBASE-S (850 nm)	N/A
62.5/125µm	26
1000BASE-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

XGLO 300 Multimode 50/125, OM3

STANDARDS COMPLIANCE

- ISO/IEC 11801:2002 OM3
- ANSI/TIA-568.3-D
- ANSI/TIA-598-D
- ANSI/TIA-492 AAAC
- IEC 60793-2-10 Fiber Type Ala.2
- Telcordia GR-409-CORE
- IEC 60332-1-2
- IEC 60332-3, IEC 60332-1-12 (Single strand), IEC 60754-2 (Acid gas) IEC 61034-2 (Smoke Density)
- EN 50399
  Class E_{ca}, D_{ca}
  Class C_{ca} $s1_a$, d_1, a_1

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10GBASE-S (850 nm)	300
10GBASE-LX4 (1300 nm)	300
1000BASE-S (850 nm)	1000
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
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-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
- IEC 60332-3, IEC 60332-1-12 (Single strand), IEC 60754-2 (Acid gas) IEC 61034-2 (Smoke Density)
- EN 50399
  Class E_{ca}, D_{ca}
  Class C_{ca} $s1_a$, d_1, a_1

APPLICATIONS SUPPORT

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
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-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, Class
- IEC 60332-3, IEC 60332-1-12 (Single strand), IEC 60754-2 (Acid gas) IEC 61034-2 (Smoke Density)
- EN 50399
  Class E_{ca}, D_{ca}
  Class C_{ca} $s1_a$, d_1, a_1

APPLICATIONS SUPPORT

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

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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 Tight Buffer (International) Physical Specifications

PHYSICAL SPECIFICATIONS (All Values Are Nominal)

Fiber Count	Nominal Cable Diameter (mm)	Maximum Pulling Tension Newtons (N)		Nominal Net Weight (kg/km)
		Installation	Long Term	
2	7.5	1500	1000	46
4	7.5	1500	1000	48
6	7.5	1500	1000	49
8	8.0	1500	1000	54
12	8.3	1500	1000	62
16	8.8	2100	1300	75
24	9.4	2400	1500	87

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	25	-20 to 70 (-4 to 158)°F	-20 to 60 (-4 to 140)°F	-40 to 70 (-40 to 158)°F	20 x DIA.	10 x DIA.

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