XGLO™ & LightSystem® Indoor/Outdoor, Armor, Loose Tube

Siemon LSOH (IEC 60332-3) 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.

Ordering Information:

9GGA(X)H(XXXX)(XXXX)M . . . . . .LightSystem Multimode 62.5/125 OM1, XGLO Multimode 50/125 OM3, 50/125 OM4, Singlemode

A = Armor

Length
M = Meters

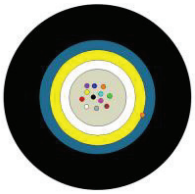
Fiber Type
6 = 62.5/125µm
5 = 50/125µm
8 = OS1/OS2 Singlemode

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

Cable Rating
H = LSOH 60332-3C

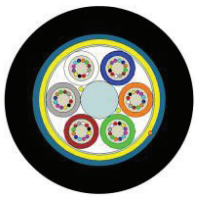
Fiber Count (Subunit)
004C = 2 (1 Tube with 4 Fibers)
006D = 6 (1 Tube with 6 Fibers)
008E = 8 (1 Tube with 8 Fibers)
012G = 12 (1 Tube with 12 Fibers)
016C = 16 (4 Tubes with 4 Fibers)
024D = 24 (4 Tubes with 6 Fibers)
036G = 36 (3 Tubes with 12 Fibers)
048G = 48 (4 Tubes with 12 Fibers)
072G = 72 (6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

4F-12F I/O Armored Loose Tube LSZH Cable



- **Tube:** thermoplastic material, containing up to 12 fibres and filled with a suitable water tightness compound.
- **Strength Elements:** glass yarns.
- **Armour:** corrugated steel tape. 1 ripcord under the tape.
- **Outer Sheath:** LSZH.

16F-144F I/O Armored Loose Tube LSZH Cable



- **Central strength member (CSM):** glass fibre reinforced plastic material (FRP) with up-coating when needed.
- **Tube:** thermoplastic material, containing up to 12 optical fibres and filled with a suitable water tightness compound.
- **Stranding:** the required number of elements (tubes or fillers) are SZ stranded around the central strength member.
- **Longitudinal Water Tightness:** water swellable elements (dry core).
- **Strength Elements:** glass yarns.
- **Armour:** corrugated steel tape. 1 ripcord under the tape.
- **Outer Sheath:** LSZH.

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

STANDARDS COMPLIANCE	STANDARDS COMPLIANCE	STANDARDS COMPLIANCE	STANDARDS COMPLIANCE
• ISO/IEC 11801:2002 OM1 (62.5/125)	• ISO/IEC 11801:2002 OM3	• ISO/IEC 11801:2002 OM3	• ISO/IEC 11801:Ed 2.0 Amendment:1:2008
• ANSI/TIA-568.3-D	• ANSI/TIA-568.3-D	• ISO/IEC 11801:2002 Ammendment 2 OM4	• ANSI/TIA-568.3-D
• ANSI/TIA-598-D	• ANSI/TIA-598-D	• ANSI/TIA-568.3-D	• ANSI/TIA-598-D
• ANSI/TIA-492 AAAA	• ANSI/TIA-492 AAAC	• ANSI/TIA-598-D	• ANSI/TIA-492 CAAB
• Telcordia GR-409-CORE	• IEC 60793-2-10 Fiber Type Ala.2	• ANSI/TIA-492 AAAD	• Telcordia GR-409-CORE
• IEC 60332-1-2 (Single Cable)	• Telcordia GR-409-CORE	• IEC 60793-2-10 Fiber Type A1a.3	• ITU-T G.652 C/D
IEC 60754-1-2 (Non Halogens)	• IEC 60332-1-2 (Single Cable)	• Telcordia GR-409-CORE	• IEC 60332-1-2 (Single Cable)
IEC 60754-2 (Acid gas)	IEC 60754-1-2 (Non Halogens)	• IEC 60332-1-2 (Single Cable)	IEC 60754-1-2 (Non Halogens)
IEC 60794-1-2 (Water)	IEC 60754-2 (Acid gas)	IEC 60754-1-2 (Non Halogens)	IEC 60754-2 (Acid gas)
IEC 61034-2 (Smoke density)	IEC 60794-1-2 (Water)	IEC 60754-2 (Acid gas)	IEC 60794-1-2 (Water)
• EN 50575	IEC 61034-2 (Smoke density)	IEC 60794-1-2 (Water)	IEC 61034-2 (Smoke density)
	• EN 50575	IEC 61034-2 (Smoke density)	• EN 50575
		• EN 50575	

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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 Armor (APAC) 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	10.1	1500	700	120
6	10.1	1500	700	120
8	10.1	1500	700	120
12	10.1	1500	700	120
16	11.8	2500	1200	160
24	11.8	2500	1200	160
36	11.8	2500	1200	160
48	12.5	2500	1200	179
72	12.5	2500	1200	179
96	13.7	2500	1200	207
144	16.7	2500	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
4-144	20	-40°C to +70°C * , **	-10°C to +60°C **	-30°C to +70°C **	20 x	10 x

** 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.