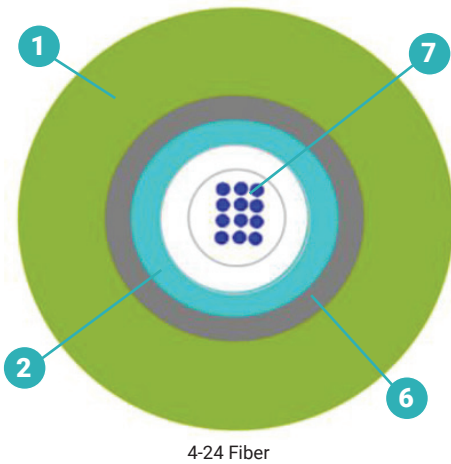


XGLO® & LightSystem® Indoor/Outdoor, Armor, LooseTube, EuroClass B2_{ca}S_{1b}, d₁, a₁

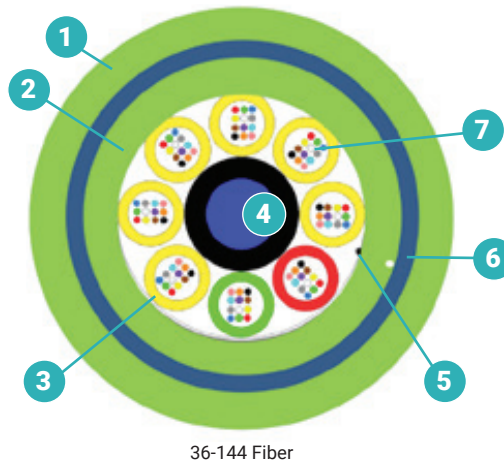
Regional Availability – EMEA



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.



4-24 Fiber



36-144 Fiber

1. Jacket (Black)

Material: LSOH - LSOH Compound

2. Water Blocking Swellable Tape

3. 2.3mm Gel Filled Buffer Tubes

4. Central Strength Member

Light-weight solid dielectric

5. Rip Cord

Applied longitudinally under cable jacket

6. Armor - Corrugated Steel Tape

Applied longitudinally under cable jacket

7. Identification

Color-coded fibers and tubes

Construction/Features

- Outer jacket is a UV resistant black MDPE (Medium Density Polyethylene)
- Water blocking, gel-filled loose tubes
- Non-Armor and Armor versions
- Armor version utilises a robust corrugated steel armor

These cables provide a degree of rodent protection effective in many cases. The non-armor cable has a PE sheath which has a hard surface and provides a degree of rodent protection because it is disagreeable and unpleasant for most rodents to gnaw on. The armor cable has a PE sheath and corrugated steel tape which provides 100% rodent protection.

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 (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, Cca Class B2_{ca}S_{1b}d₁, a₁

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 (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, Cca Class B2_{ca}S_{1b}d₁, a₁

XGLO 550 Multimode 50/125, OM4

Standards Compliance

- ISO/IEC 11801: 2002 OM3
- ISO/IEC 11801: Amendment 2 OM4
- ANSI/TIA-568.3-D
- ANSI/TIA-598-D
- ANSI/TIA-492 AAAD
- IEC 60793-2-10 Fiber Type Ala.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, Cca Class B2_{ca}S_{1b}d₁, a₁

XGLO Singlemode 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
- 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, Cca Class B2_{ca}S_{1b}d₁, a₁

LightSystem Gigabit Ethernet Fiber Optic Cable

Minimum Performance Parameters for LightSystem 62.5/125µm Multimode Fiber

FIBER TYPE	WAVELENGTH nm	MAX ATTENUATION (dB/km)	MIN 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)		MIN BANDWIDTH (MHz · km)		MAX 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	MAX ATTENUATION (dB/km)
SINGLEMODE (OS2)	1310	0.40
	1550	0.30

XGLO and LightSystem Indoor/Outdoor, Loose Tube, Armor (EMEA) Physical Specifications

Physical Specifications (All Values Are Nominal)

FIBER COUNT	CABLE CONSTRUCTION	NOMINAL CABLE DIAMETER mm (in)	MAX PULLING TENSION – NEWTONS (lbs)		WEIGHT kg (lbs)
			Installation	Long Term	
4	Central Tube	8.5 (0.33)	3000 (674)	1000 (225)	100 (220.5)
6	Central Tube	8.5 (0.33)	3000 (674)	1000 (225)	100 (220.5)
8	Central Tube	8.5 (0.33)	3000 (674)	1000 (225)	100 (220.5)
12	Central Tube	8.5 (0.33)	3000 (674)	1000 (225)	100 (220.5)
16	Central Tube	8.5 (0.33)	3000 (674)	1000 (225)	100 (220.5)
24	Central Tube	8.5 (0.33)	3000 (674)	1000 (225)	100 (220.5)
36	Loose Tube Stranded	14.5 (0.57)	1800 (405)	1200 (270)	256 (564.3)
48	Loose Tube Stranded	14.5 (0.57)	1800 (405)	1200 (270)	260 (573.2)
72	Loose Tube Stranded	14.5 (0.57)	1800 (405)	1200 (270)	266 (586.4)
96	Loose Tube Stranded	14.5 (0.57)	1800 (405)	1200 (270)	275 (606.3)
144	Loose Tube Stranded	19.0 (0.75)	1800 (405)	1200 (270)	404 (890.7)

FIBER COUNT	MAX CRUSH RESISTANCE (n/mm)	OPERATION TEMPERATURE °C	INSTALLATION TEMPERATURE °C	STORAGE TEMPERATURE °C	MIN BEND RADIUS	
					Installation	Long Term
4-24	22	-40 to 70	-40 to 70	-40 to 70	20 x DIA	10 x DIA
36-144	30	-30 to 60	-40 to 60	-40 to 60	20 x DIA	10 x CDIA

In the interval -60° C to 70° C there is no attenuation variation (≤0.05 dB) for a single mode fiber, 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 colors are available upon request. Contact our Customer Service Department for more information.

Ordering Information

LightSystem: Multimode 62.5/125 OM1, XGLO Multimode 50/125 OM3, 50/125 OM4, Singlemode OS2

9GGA (X) B (XXXX) (XXXX) N

FIBER TYPE	FIBER COUNT	PERFORMANCE
6 = 62.5/125µm	004C = 4 (1 Tube with 4 Fibers)	G101 = OM1 62.5/125µm
5 = 50/125µm	006D = 6 (1 Tube with 6 Fibers)	T301 = OM3 50/125µm Laser Optimised
8 = OS1/OS2 Singlemode	008E = 8 (1 Tube with 8 Fibers)	T501 = OM4 50/125µm Laser Optimised
	012G = 12 (1 Tube with 12 Fibers)	E201 = OS2 Singlemode
	016K = 16 (1 Tube with 16 Fibers)	
	024L = 24 (1 Tubes with 24 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)	

Because we continuously improve our products, Siemon reserves the right to change specifications and availability without prior notice.

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