

XGLO® & LightSystem® Outside Plant Loose Tube - North America

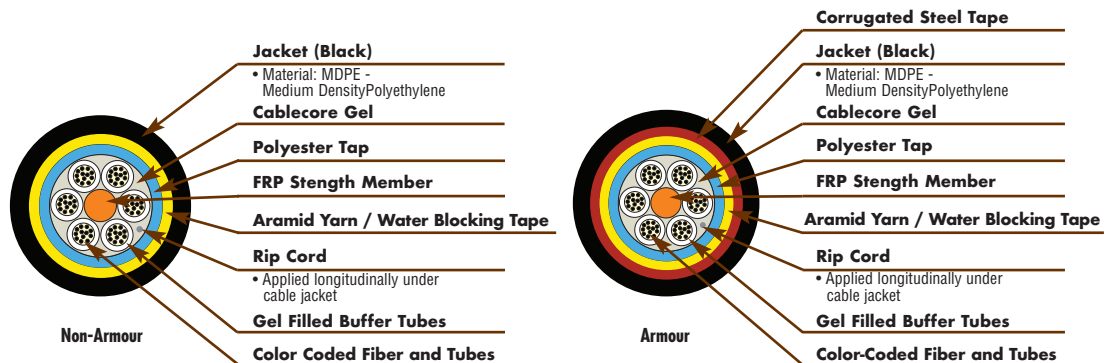
Siemon outside plant (OSP) cables are ideal for campus, building-to-building interconnections, lashed aerial, duct or underground conduits and direct burial with proper sand back filling. These cables are designed to tolerate the installation and stresses in cables exposed to the external environment. 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:

Type P = Outside Plant Loose Tube, Dry Core, Gel Tube		9(X)(X)(X)(X)(XXXX)-(XX)(XX)(X) LightSystem: Multimode 62.5/125 OM1, XGLO Multimode 50/125 OM3 and OM4 , Singlemode OS1/OS2	
Armour E = Non Armor F = Armor		UOM A = Feet	
Fiber Type 6 = OM1 62.5/125µm 5 = OM3, OM4, 50/125µm 8 = OS1/OS2 Singlemode		Jacket Color 01 = Black	
Jacket C = MDPE (Medium Density Polyethylene)		Performance G1 = OM1 62.5/125µm T3 = OM3 50/125µm Laser Optimised T5 = OM4 50/125µm Laser Optimised E2 = OS1/OS2 Singlemode	
		Fiber Count (Sub unit)	
		002B = 2 (1 Tube with 2 Fibers)	024D = 24 (4 Tubes with 6 Fibers)
		004C = 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)
		016C = 16 (4 Tubes with 4 Fibers)	144G = 144 (12 Tubes with 12 Fibers)

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		XGLO 300 Multimode 50/125, OM3		XGLO 550 Multimode 50/125, OM4		XGLO Singlemode, OS1/OS2	
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 Amendment 2 OM4		• ISO/IEC 11801: Ed 2.0 Amendment 1:2008	
• ANSI/TIA-568.3-D		• ANSI/TIA-568.3-D		• ANSI/TIA-568.3-D		• ANSI/TIA-568.3-D	
• ANSI/TIA-598-D		• ANSI/TIA-598-D		• ANSI/TIA-598-D		• ANSI/TIA-598-D	
• ANSI/TIA-492 AAAA		• ANSI/TIA-492 AAAC		• ANSI/TIA-492 AAAD		• ANSI/TIA-492 CAAB	
• Telcordia GR-20-CORE		• Telcordia GR-20-CORE		• Telcordia GR-20-CORE		• Telcordia GR-20-CORE	
• ITU-T G.652 C/D							
APPLICATIONS SUPPORT		APPLICATIONS SUPPORT		APPLICATIONS SUPPORT		APPLICATIONS SUPPORT	
APPLICATION	DISTANCE (m)	APPLICATION	DISTANCE (m)	APPLICATION	DISTANCE (m)	APPLICATION	DISTANCE (m)
10GBASE-S (850 nm)	N/A	10GBASE-S (850 nm)	300	10GBASE-S (850 nm)	550	10GBASE-L (1310 nm)	8,000
62.5/125µm	26	10GBASE-LX4 (1300 nm)	300	10GBASE-LX4 (1300 nm)	300	10GBASE-E (1550 nm)	30,000
1000BASE-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	1000BASE-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		
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 Outside Plant-Loose Tube Physical Specifications

PHYSICAL SPECIFICATIONS (All Values Are Nominal)

Fiber Count	Nominal Cable Diameter mm (in)		Maximum Pulling Tension Newtons				Net Weight kg/km (lbs/1000 ft)	
			Installation		Long Term			
	Non Armour	Armour	Non Armour	Armour	Non Armour	Armour	Non Armour	Armour
2	11.78 (0.46)	12.92 (0.51)	2670	2670	890	890	90 (60.5)	162 (109)
4	11.78 (0.46)	12.92 (0.51)	2670	2670	890	890	90 (60.5)	162 (109)
6	11.78 (0.46)	12.92 (0.51)	2670	2670	890	890	90 (60.5)	162 (109)
8	11.78 (0.46)	12.92 (0.51)	2670	2670	890	890	90 (60.5)	162 (109)
12	11.78 (0.46)	12.92 (0.51)	2670	2670	890	890	90 (60.5)	162 (109)
16	11.78 (0.46)	12.92 (0.51)	2670	2670	890	890	93 (62.5)	165 (110.9)
24	11.78 (0.46)	12.92 (0.51)	2670	2670	890	890	93 (62.5)	165 (110.9)
36	11.78 (0.46)	12.92 (0.51)	2670	2670	890	890	94 (63.2)	166 (111.5)
48	11.78 (0.46)	12.92 (0.51)	2670	2670	890	890	95 (63.8)	167 (112.2)
72	12.52 (0.49)	13.54 (0.53)	2670	2670	890	890	113 (76)	191 (128.4)
96	14.81 (0.58)	15.85 (0.63)	2670	2670	890	890	160 (107.5)	240 (161.3)
144	18.16 (0.72)	19.15 (0.75)	2670	2670	890	890	262 (176)	365 (245.3)

Fiber Type	Maximum Crush Resistance (N/mm)		Operation Temperature °C (°F)	Installation Temperature °C (°F)	Storage Temperature °C (°F)	Minimum Bend Radius	
	Non Armour	Armour				Installation	Long Term
2 - 144	22	44	-40 to 70 (-40 to 158)	-30 to 70 (-22 to 158)	-40 to 70 (-40 to 158)	20 x Cable OD	10 x Cable OD

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