

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

Armour

E = Non Armor

F = Armor

Fiber Type

6 = OM1 62.5/125µm

5 = OM3, OM4, 50/125µm

8 = OS1/OS2 Singlemode

Jacket

C = MDPE (Medium Density Polyethylene)

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

UOM

A = Feet

Jacket Color

01 = Black

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)

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)

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)

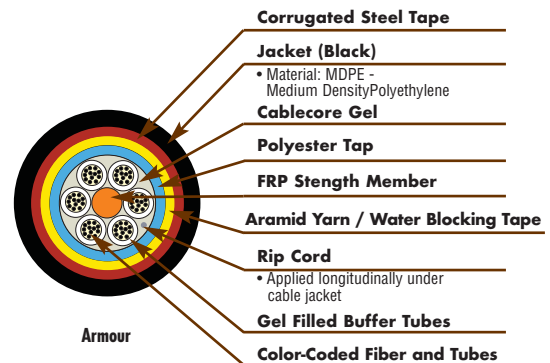
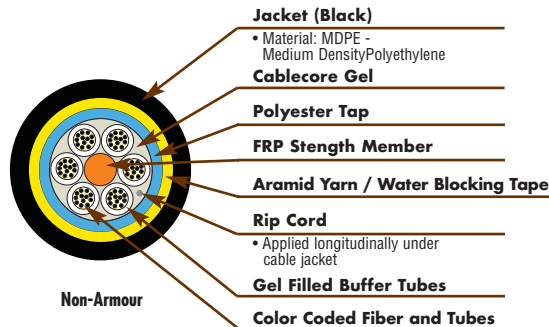
072G = 72 (6 Tubes with 12 Fibers)

096G = 96 (8 Tubes with 12 Fibers)

144G = 144 (12 Tubes with 12 Fibers)

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-20-CORE

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
FDD1 (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
- Telcordia GR-20-CORE

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
FDD1 (Original-1300 nm)	2,000
100BASE-FX (1300 nm)	2,000

XGLO 550 Multimode 50/125, OM4

STANDARDS COMPLIANCE

- ISO/IEC 11801: 2002 Amendment 2 OM4
- ANSI/TIA-568.3-D
- ANSI/TIA-598-D
- ANSI/TIA-492 AAAD
- Telcordia GR-20-CORE

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
FDD1 (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-20-CORE
- ITU-T G.652 C/D

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

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

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

Minimum Performance Parameters for XGLO Singlemode Fiber

† 10GBASE-S †† 10GBASE-LX4

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.