

# XGLO® & LightSystem® Outside Plant Loose Tube (International)

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, Gigabit ATM and Fibre Channel.

## Ordering Information

**LightSystem: Multimode 62.5/125 OM1, XGLO OM3 and OM4 Multimode 50/125, Singlemode OS1/OS2**

Part #	Fiber Count	Construction
9F(XX)(X)4-2F(XXXX)	2	1 tube of 2 fibers
9F(XX)(X)4-4A(XXXX)	4	1 tube of 4 fibers
9F(XX)(X)4-6B(XXXX)	6	1 tube of 6 fibers
9F(XX)(X)4-8C(XXXX)	8	1 tube of 8 fibers
9F(XX)(X)4-12D(XXXX)	12	1 tube of 12 fibers
9F(XX)(X)4-16A(XXXX)	16	2 tubes of 6 fibers 1 tube of 4 fibers

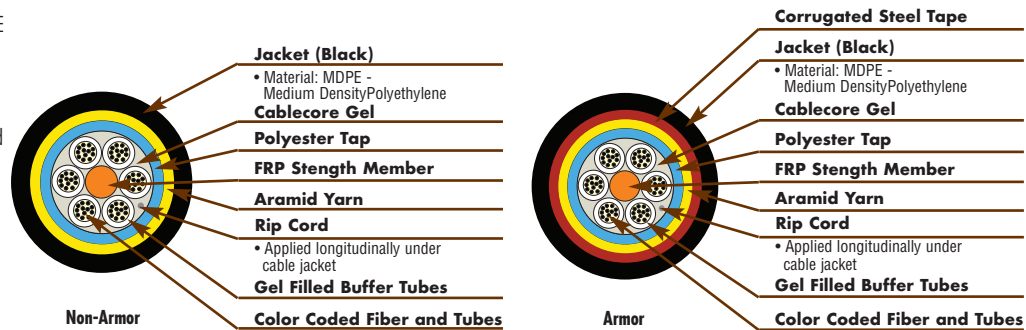
Part #	Fiber Count	Construction
9F(XX)(X)4-24B(XXXX)	24	4 tubes of 6 fibers
9F(XX)(X)4-36D(XXXX)	36	6 tubes of 6 fibers
9F(XX)(X)4-48D(XXXX)	48	4 tubes of 12 fibers
9F(XX)(X)4-72D(XXXX)	72	6 tubes of 12 fibers
9F(XX)(X)4-96D(XXXX)	96	8 tubes of 12 fibers
9F(XX)(X)4-144D(XXXX)	144	12 tubes of 12 fibers

Use 1st (XX) to specify fiber type: 6 = OM1 62.5/125µm, 5L = OM3 50/125 m Laser Optimized, 5V = OM4 50/125µm Laser Optimized, 8L = OS1/ OS2 Singlemode  
Use (X) to specify Non Armor or Armor: D = Non Armor, E = Armor  
Use (XXXX) to specify length in kilometer. Use 4 characters including decimal point.

Example p/n: 9F5LD4-12D1.50: (1.5 kilometers [1500 meters] of 50/125µm laser optimized 12-strand)  
For orders of less than 1km, the first "X" must be zero (0).  
Example: 9F5LD4-12D0.55 (.550 kilometers [550 meters] of 50/125µm laser optimized 12-strand)

### 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 utilizes a robust corrugated steel armor
- No central strength member for 2-12 strands
- Central strength member for 16-144 strands



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	
<b>STANDARDS COMPLIANCE</b>		<b>STANDARDS COMPLIANCE</b>		<b>STANDARDS COMPLIANCE</b>		<b>STANDARDS COMPLIANCE</b>	
<ul style="list-style-type: none"> <li>ISO/IEC 11801:2002 OM1 (62.5/125)</li> <li>IEC 60794-3-10</li> <li>ANSI/TIA/EIA-568-C.3</li> <li>ANSI/TIA-598-D</li> <li>ANSI/TIA-492 AAAA</li> <li>Telcordia GR-20-CORE</li> </ul>		<ul style="list-style-type: none"> <li>ISO/IEC 11801:2002 OM3</li> <li>IEC 60794-3-10</li> <li>ANSI/TIA/EIA-568-C.3</li> <li>ANSI/TIA-598-D</li> <li>ANSI/TIA-492 AAAC</li> <li>IEC 60793-2-10 Fiber Type A1a.2</li> <li>Telcordia GR-20-CORE</li> </ul>		<ul style="list-style-type: none"> <li>ISO/IEC 11801:2002 Amendment 2 OM4</li> <li>IEC 60794-3-10</li> <li>ANSI/TIA/EIA-568-C.3</li> <li>ANSI/TIA-598-D</li> <li>ANSI/TIA-492 AAAD</li> <li>IEC 60793-2-10 Fiber Type A1a.3</li> <li>Telcordia GR-20-CORE</li> </ul>		<ul style="list-style-type: none"> <li>ISO/IEC 11801:Ed 2.0 Amendment 1:2008</li> <li>IEC 60794-3-10</li> <li>ANSI/TIA/EIA-568-C.3</li> <li>ANSI/TIA-598-D</li> <li>ANSI/TIA-492 CAAB</li> <li>Telcordia GR-20-CORE</li> <li>ITU-T G.652 C/D</li> </ul>	
<b>APPLICATIONS SUPPORT</b>		<b>APPLICATIONS SUPPORT</b>		<b>APPLICATIONS SUPPORT</b>		<b>APPLICATIONS SUPPORT</b>	
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
100GBASE-S (850 nm)	N/A	100GBASE-S (850 nm)	1000	100GBASE-S (850 nm)	1100	10G Fibre Channel (Serial-1310 nm)	10,000
62.5/125µm	275	100GBASE-LX (1300 nm)	600	100GBASE-LX (1300 nm)	600	10G Fibre Channel (WDM-1310 nm)	10,000
100GBASE-LX (1300 nm)	550	Fibre Channel 266 (1300 nm)	1,500	Fibre Channel 266 (1300 nm)	1,500	100GBASE-LX (1300 nm)	5,000
Fibre Channel 266 (1300 nm)	1,500	ATM 622 (1300 nm)	500	ATM 622 (1300 nm)	500	Fibre 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						

# 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)
62.5/125 (OM1)	850	3.5	200	275
	1300	1.0	500	550

\*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		Maximum Pulling Tension Newtons				Net Weight kg/km	
			Installation		Long Term			
	Non Armor	Armor	Non Armor	Armor	Non Armor	Armor	Non Armor	Armor
2	8.5	10.7	1500	2700	450	810	55	109
4	8.5	10.7	1500	2700	450	810	55	109
6	8.5	10.7	1500	2700	450	810	55	109
8	8.5	10.7	1500	2700	450	810	55	109
12	8.5	10.7	1500	2700	450	810	55	109
16	11.0	10.8	1500	2700	450	810	99	118
24	11.0	11.4	1500	2700	450	810	97	131
36	11.2	11.4	1500	2700	450	810	100	152
48	11.2	12.3	1500	2700	450	810	100	151
72	11.2	12.3	1500	2700	450	810	100	151
96	12.7	13.8	1500	2700	450	810	126	186
144	15.7	16.8	1500	2700	450	810	189	263

Fiber Type	Maximum Crush Resistance (KN)		Operation Temperature °C (°F)	Installation Temperature °C (°F)	Storage Temperature °C (°F)	Minimum Bend Radius	
	Non Armor	Armor				Installation	Long Term
2 - 144	short term: 1.5 long term: 0.75	short term: 2.2 long term: 1.1	-30 to 60 (-22 to 140)	-10 to 60 (-14 to 140)	-40 to 60 (-40 to 140)	10 x DIA.	20 x DIA.

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