

# 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 and Fiber Channel.

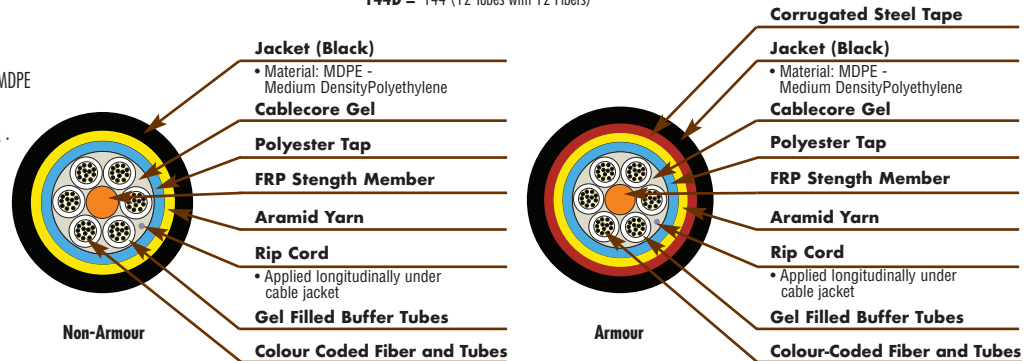
## Ordering Information:

9F(XX)(X)4-(XXXX)(XXXX) . . . . . LightSystem: Multimode 62.5/125 OM1, XGLO Multimode 50/125 OM3 and OM4 , Singlemode OS1/OS2

<p><b>Fiber Type</b></p> <p>6 = OM1 62.5/125µm          5L = OM3 50/125µm Laser Optimised          5V = OM4 50/125µm Laser Optimised          8L = OS1/OS2 Singlemode</p> <p><b>Armour</b></p> <p>D = Non Armour          E = Armour</p> <p><b>Cable Rating</b></p> <p>4 = MDPE</p>	<p><b>Fiber Count (Subunit)</b></p> <p>002F = 2 (1 Tube with 2 Fibers)          004A = 4 (1 Tube with 4 Fibers)          006B = 6 (1 Tube with 6 Fibers)          008C = 8 (1 Tube with 8 Fibers)          012D = 12 (1 Tube with 12 Fibers)          016A = 16 (2 Tubes with 6 Fibers and 1 Tube of 4 Fibers)          024B = 24 (4 Tubes with 6 Fibers)          036D = 36 (6 Tubes with 6 Fibers)          048D = 48 (4 Tubes with 12 Fibers)          072D = 72 (6 Tubes with 12 Fibers)          096D = 96 (8 Tubes with 12 Fibers)          144D = 144 (12 Tubes with 12 Fibers)</p>	<p><b>Length</b></p> <p>Length must be 4 digits including decimal point</p> <p><b>Examples:</b></p> <p>1.00 = 1km          0.50 = 500m</p>
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## CONSTRUCTION/FEATURES

- Outer jacket is a UV resistant black MDPE (Medium Density Polyethylene)
- Water blocking, gel-filled loose tubes
- Non-Armour and Armour versions
- Armour version utilises a robust corrugated steel armour
- 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-armour 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 armour 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	
<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-568.3-D</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-568.3-D</li> <li>ANSI/TIA-598-D</li> <li>ANSI/TIA-492 AAAC</li> <li>IEC 60793-2-10 Fiber Type Ala.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-568.3-D</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-568.3-D</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>	
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		Maximum Pulling Tension Newtons				Net Weight kg/km	
			Installation		Long Term			
	Non Armour	Armour	Non Armour	Armour	Non Armour	Armour	Non Armour	Armour
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 Armour	Armour				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.