

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

Siemon outside plant (OSP) fiber optic cables are ideal for campus, building-to-building interconnections, lashed aerial, duct or underground conduits. 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, Multimode 50/125 OM2, 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

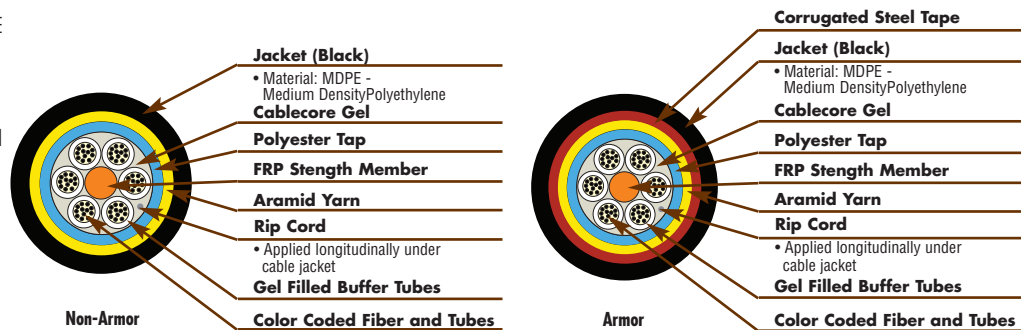
Part #	Fiber Count	Construction
9F(XX)(X)4-24B(XXXX)	24	4 tubes of 6 fibers
9F(XX)(X)4-36D(XXXX)	36	6 tubes of 6 fibers
9F(XX)(X)4-48D(XXXX)	48	4 tubes of 12 fibers
9F(XX)(X)4-72D(XXXX)	72	6 tubes of 12 fibers
9F(XX)(X)4-96D(XXXX)	96	8 tubes of 12 fibers
9F(XX)(X)4-144D(XXXX)	144	12 tubes of 12 fibers

Use 1st (XX) to specify fiber type: 6 = OM1 62.5/125µm, 5 = OM2 50/125µm, 5L = OM3 50/125µm 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 OM1 Multimode 62.5/125 OM2 Multimode 50/125		XGLO 300 OM3 Multimode 50/125		XGLO 550 OM4 Multimode 50/125		XGLO OS1/OS2 Singlemode	
STANDARDS COMPLIANCE		STANDARDS COMPLIANCE		STANDARDS COMPLIANCE		STANDARDS COMPLIANCE	
<ul style="list-style-type: none"> ISO/IEC 11801:2002 OM1 (62.5/125) ISO/IEC 11801:2002 OM2 (50/125) ANSI/TIA/EIA-568-C.3 ANSI/TIA-598-C ANSI/TIA-492 AAAB Telcordia GR-409-CORE 		<ul style="list-style-type: none"> ISO/IEC 11801:2002 OM3 ANSI/TIA/EIA-568-C.3 ANSI/TIA-598-C ANSI/TIA-492 AAAC Telcordia GR-409-CORE 		<ul style="list-style-type: none"> ISO/IEC 11801:2002 Amendment 2 OM4 ANSI/TIA/EIA-568-C.3 ANSI/TIA-598-C ANSI/TIA-492 AAAD IEC 60793-2-10 Fiber Type A1a.3 Telcordia GR-409-CORE 		<ul style="list-style-type: none"> ISO/IEC 11801:Ed 2.0 Amendment:1:2008 ANSI/TIA/EIA-568-C.3 ANSI/TIA-598-C Telcordia GR-409-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
50/125µm	82	10GBASE-LX4 (1300 nm)	300	10GBASE-LX4 (1300 nm)	300	10GBASE-E (1550 nm)	30,000
62.5/125µm	26	1000BASE-S (850 nm)	1000	1000BASE-S (850 nm)	1100	10G Fiber Channel (Serial-1310 nm)	10,000
1000BASE-S (850 nm)	N/A	1000BASE-LX (1300 nm)	600	1000BASE-LX (1300 nm)	600	10G Fiber Channel (WDM-1310 nm)	10,000
50/125µm	550	Fiber Channel 266 (1300 nm)	1,500	Fiber Channel 266 (1300 nm)	1,500	1000BASE-LX (1300 nm)	5,000
62.5/125µm	275	ATM 622 (1300 nm)	500	ATM 622 (1300 nm)	500	Fiber Channel 266/1062 (1300 nm)	10,000
1000BASE-LX (1300 nm)	550	ATM 155 (1300 nm)	2,000	ATM 155 (1300 nm)	2,000	ATM 52/155/622 (1300 nm)	15,000
Fiber Channel 266 (1300 nm)	1,500	ATM 52 (1300 nm)	3,000	ATM 52 (1300 nm)	3,000		
ATM 622 (1300 nm)	500	FDD1 (Original-1300 nm)	2,000	FDD1 (Original-1300 nm)	2,000		
ATM 155 (1300 nm)	2,000	100BASE-FX (1300 nm)	2,000	100BASE-FX (1300 nm)	2,000		
ATM 52 (1300 nm)	3,000						
FDD1 (Original-1300 nm)	2,000						
100BASE-FX (1300 nm)	2,000						

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

LightSystem® Gigabit Ethernet Fiber Optic Cable

Minimum Performance Parameters for LightSystem 62.5/125µm & 50/125µm Multimode Fiber

Fiber Type	Wavelength nm	Maximum Attenuation (dB/km)	Minimum Modal Bandwidth (MHz·km)	Guaranteed Gigabit Transmission Distance (Meters)	Index of Refraction
62.5/125 (OM1)	850	3.5	200	275	1.495
	1300	1.0	500	550	1.490
50/125 (OM2)	850	3.5	500	550	1.483
	1300	1.0	500	550	1.479

*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)		Group Index of Refraction	
	850 nm	1300 nm	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	1.483	1.479
50/125 (OM4)	1100	600	550	300	RML - 4700 OFL - 3500	OFL - 500	3.0	1.0	1.483	1.479

† 10GBASE-S †† 10GBASE-LX4

Minimum Performance Parameters for XGLO Singlemode Fiber

Fiber Type	Wavelength (nm)	Maximum Attenuation (dB/km)	Zero Dispersion Wavelength (nm)	Zero Dispersion Slope (nm ² -km)	Index of Refraction
Singlemode (OS1/OS2)	1310	0.40	1312 ± 10	≤0.089	1.468
	1550	0.30	1312 ± 10	≤0.089	1.468
	1310 - 1625	<0.40	1312 ± 10	≤0.089	1.468

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				Maximum 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	12.3	1500	2700	450	810	100	152
48	11.2	12.3	1500	2700	450	810	100	152
72	11.2	12.3	1500	2700	450	810	100	152
96	12.7	13.8	1500	2700	450	810	126	186
144	15.7	16.8	1500	2700	450	810	189	263

Fiber Type	Minimum Crush Resistance		Operating Temperature °C	Storage Temperature °C	Minimum Bend Radius	
	Non Armor	Armor			Installation	Long Term
2 - 144	1000	1100	-30 to 60	-40 to 70	20 x DIA.	10 x DIA.

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