XGLO™ & LightSystem® Outside Plant-LooseTube (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 Fiber Channel.

Ordering Information

XGLO Multimode 50/125 OM3, OM4, Singlemode OS2, LightSystem: Multimode 62.5/125 OM1, 50/125 OM2

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	1 tube of 4 fibers

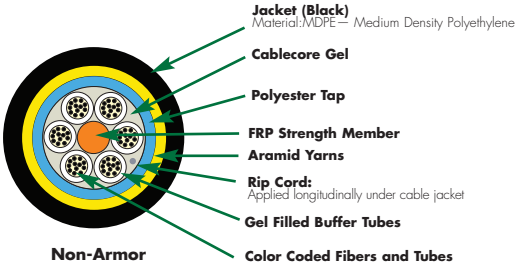
Part #	Fiber Count	Construction
9F(XX)(X)4-24B(XXXX)	24	4 tubes of 6 fibers
9F(XX)(X)4-36D(XXXX)	36	6 tubes of 6 fibers
9F(XX)(X)4-48D(XXXX)	48	4 tubes of 12 fibers
9F(XX)(X)4-72D(XXXX)	72	6 tubes of 12 fibers
9F(XX)(X)4-96D(XXXX)	96	8 tubes of 12 fibers
9F(XX)(X)4-144D(XXXX)	144	12 tubes of 12 fibers

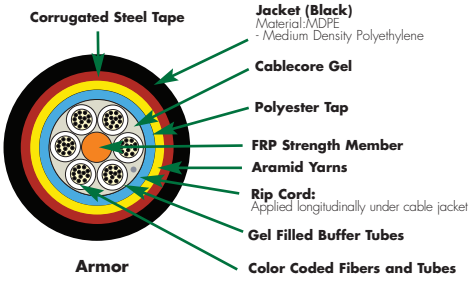
RoHS Compliant

Use 1st (XX) to specify fiber type: 6 = OM1 62.5/125µm, 5 = OM2 50/125µm, 5V = OM4 50/125µm Laser Optimized, 8L = 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





XGLO Singlemode, OS2

STANDARDS COMPLIANCE

- 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

APPLICATION	DISTANCE (m)
10GBASE-L (1310 nm)	8,000
10GBASE-E (1550 nm)	30,000
10G Fibre Channel (Serial-1310 nm)	10,000
10G Fibre Channel (WDM-1310 nm)	10,000
1000BASE-LX (1300 nm)	5,000
Fibre Channel 266/1062 (1300 nm)	10,000
ATM 52/155/622 (1300 nm)	15,000

XGLO (550) Multimode, 50/125, OM4

STANDARDS COMPLIANCE

- ISO/IEC 11801:2002 OM3
- ISO/IEC 11801:2002 Ammendment 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

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10GBASE-SX (850 nm)	550
10GBASE-LX4 (1300 nm)	300
1000BASE-SX (850 nm)	1100
1000BASE-LX (1300 nm)	600
Fibre Channel 266 (1300 nm)	1,500
ATM 622 (1300 nm)	500
ATM 155 (1300 nm)	2,000
ATM 52 (1300 nm)	3,000
FDDI (Original-1300 nm)	2,000
100BASE-FX (1300 nm)	2,000

XGLO Multimode (300) 50/125, OM3

STANDARDS COMPLIANCE

- ISO/IEC 11801:2002 OM3
- ANSI/TIA/EIA-568-C.3
- ANSI/TIA-598-C
- ANSI/TIA-492 AAAC
- Telcordia GR-409-CORE

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10GBASE-SX (850 nm)	300
10GBASE-LX4 (1300 nm)	300
1000BASE-SX (850 nm)	1000
1000BASE-LX (1300 nm)	600
Fibre Channel 266 (1300 nm)	1,500
ATM 622 (1300 nm)	500
ATM 155 (1300 nm)	2,000
ATM 52 (1300 nm)	3,000
FDDI (Original-1300 nm)	2,000
100BASE-FX (1300 nm)	2,000

LIGHTSYSTEM Multimode 50/125,OM2; 62.5 OM1

STANDARDS COMPLIANCE

- 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

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10GBASE-SX (850 nm)	
50/125µm	82
62.5/125µm	26
1000BASE-SX (850 nm)	
50/125µm	550
62.5/125µm	275
1000BASE-LX (1300 nm)	550
Fibre Channel 266 (1300 nm)	1,500
ATM 622 (1300 nm)	500
ATM 155 (1300 nm)	2,000
ATM 52 (1300 nm)	3,000
FDDI (Original-1300 nm)	2,000
100BASE-FX (1300 nm)	2,000

The Americas
Watertown, CT USA
Phone (1) 860 945 4200 US
Phone (1) 888 425 6165 Canada

Europe/Middle East/Africa
Chertsey, England
Phone (44) 0 1932 571771

Asia/Pacific
Shanghai, P.R. China
Phone (86)-21-53850303-306

Central & South America
Bogota, Columbia
Phone (571) 317 2121

XGLO™ 10 Gigabit Ethernet Fiber Optic Cable

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

Fibre Type	Wavelength (nm)	Maximum Attenuation (dB/km)	Zero Dispersion Wavelength (nm)	Zero Dispersion Slope (nm^2-km)	Index of Refraction
Singlemode (0S2)	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

LightSystem® Gigabit Ethernet Fiber Optic Distribution Cable

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

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

**The protocol pertinent to the transmission distance as noted is Gigabit Ethernet per IEEE 802.3:2005.*

XGLO and LightSystem Outside Plant-LooseTube Physical Specifications

Fibre Count	Nominal Cable Diameter (mm)		Maximum Pulling Tension (Newtons)				Nominal 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

Fibre Count	Minimum Crush Resitance (N/10cm)		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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