

# XGLO® & LightSystem® Indoor/Outdoor Tight Buffer Distribution (North America)

Siemon indoor/outdoor tight buffer fiber cables are ideal for data centers, campus and building backbones. 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. Siemon indoor/outdoor cable water blocking is primarily for dry duct applications for moisture and temporary water migration protection.

## Ordering Information

LightSystem Multimode 62.5/125 OM1

XGLO Multimode Laser Optimized 50/125 OM3, OM4, Singlemode OS1/OS2

Part #	Fiber Count	Construction
9GD(X)(X)002B-(XXXX)A	2	1 tube of 2 fibers
9GD(X)(X)004C-(XXXX)A	4	1 tube of 4 fibers
9GD(X)(X)006D-(XXXX)A	6	1 tube of 6 fibers
9GD(X)(X)008E-(XXXX)A	8	1 tube of 8 fibers

Part #	Fiber Count	Construction
9GD(X)(X)012G-(XXXX)A	12	1 tube of 12 fibers
9GD(X)(X)024L-(XXXX)A	24	1 tube of 24 fibers
9GD(X)(X)048G-(XXXX)A	48	4 tubes of 12 fibers
9GD(X)(X)072G-(XXXX)A	72	6 tubes of 12 fibers

Use 1st (X) to specify fiber type: 6 = 62.5/125µm, 5 = 50/125µm, 8 = Singlemode OS1/OS2

Use 2nd (X) to specify fiber jacket type: R=Riser OFNR, P= Plenum OFNP

Use (XXXX) to specify class performance: G101 = OM1 62.5µm, T301 = OM3 50µm Laser Optimized, T501 = OM4 50µm Laser Optimized, E201 = OS1/OS2 Singlemode

Note: Contact Siemon Customer Service for cables available in fixed reel lengths. (unit of measure) F=feet

### HIGHLIGHTS

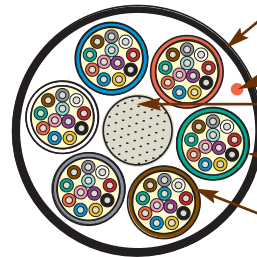
- 900µm tight buffer
- 250µm coated optical fiber
- Length markings in 2 ft. increments
- Color code Per TIA-598-C

### Aramid Yarns

- Water blocking swellable yarns



2-24 FIBER



48, 72 FIBER

### Jacket (Black)

- Material:
  - OFNR — PVC
  - OFNP — FRPVC

### Rip Cord

- Applied longitudinally under cable jacket

### Central Strength Member

- Light-weight solid dielectric

### Aramid Yarns

- Water blocking swellable yarns, water blocking tape

### Identification

- Color-coded fibers
- Color-coded buffer tubes

### LIGHTSYSTEM Multimode 62.5/125, OM1

#### STANDARDS COMPLIANCE

- ISO/IEC 11801:2002 OM1 (62.5/125)
- ANSI/TIA/EIA-568-C.3
- ANSI/TIA-598-D
- ANSI/TIA-492 AAAA
- Telcordia GR-409-CORE
- OFNR: Communications Type OFNR (UL) and CSA FT4 c(UL)
- OFNP: Communications Type OFNP (UL) and CSA FT6 c(UL)

#### APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10GBASE-SX (850 nm)	N/A
62.5/125µm	26
1000BASE-SX (850 nm)	N/A
62.5/125µm	275
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 300 Multimode 50/125, OM3

#### STANDARDS COMPLIANCE

- ISO/IEC 11801:2002 OM3
- ANSI/TIA/EIA-568-C.3
- ANSI/TIA-598-D
- ANSI/TIA-492 AAAC
- IEC 60793-2-10 Fiber Type A1a.2
- Telcordia GR-409-CORE
- OFNR: Communications Type OFNR (UL) and CSA FT4 c(UL)
- OFNP: Communications Type OFNP (UL) and CSA FT6 c(UL)

#### 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

### XGLO 550 Multimode, 50/125, OM4

#### STANDARDS COMPLIANCE

- ISO/IEC 11801:2002 OM3
- ISO/IEC 11801:2002 Amendment 2 OM4
- ANSI/TIA/EIA-568-C.3
- ANSI/TIA-598-D
- ANSI/TIA-492 AAAD
- IEC 60793-2-10 Fiber Type A1a.3
- Telcordia GR-409-CORE
- OFNR: Communications Type OFNR (UL) and CSA FT4 c(UL)
- OFNP: Communications Type OFNP (UL) and CSA FT6 c(UL)

#### 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 Singlemode, OS1/OS2

#### STANDARDS COMPLIANCE

- ISO/IEC 11801:Ed 2.0 Amendment:1:2008
- ANSI/TIA/EIA-568-C.3
- ANSI/TIA-598-D
- ANSI/TIA-492 CAAB
- Telcordia GR-409-CORE
- ITU-T G.652 C/D
- OFNR: Communications Type OFNR (UL) and CSA FT4 c(UL)
- OFNP: Communications Type OFNP (UL) and CSA FT6 c(UL)

#### 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

# LightSystem® Gigabit Ethernet Fiber Optic Distribution Cable (North America)

## 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.

# XGLO® 10 Gigabit Ethernet Fiber Optic Cable (North America)

## 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

Fiber Type	Wavelength (nm)	Maximum Attenuation (dB/km)
Singlemode (OS1/OS2)	1310	0.50
	1550	0.40

\*Attenuation specifications are in compliance with TIA-492-CAAB

# XGLO and LightSystem Physical Specifications

## PHYSICAL SPECIFICATIONS (All Values Are Nominal)

Fiber Count	Nominal Cable Diameter mm (in.)	Maximum Pulling Tension Newtons (lbf)		Maximum Net Weight kg/km (lbs/1000 ft.)	
		Installation	Long Term	OFNR	OFNP
		OFNP/OFNR	OFNP/OFNR		
2	4.8 (0.19)	1335 (300)	401 (90)	18 (12)	23 (15)
4	4.8 (0.19)	1335 (300)	401 (90)	19 (13)	24 (16)
6	4.8 (0.19)	1335 (300)	401 (90)	21 (14)	26 (17)
8	5.8 (0.23)	1335 (300)	401 (90)	27 (18)	34 (23)
12	5.8 (0.23)	1335 (300)	401 (90)	30 (20)	37 (25)
24	8.4 (0.33)	1282 (288)	641 (144)	77 (52)	77 (52)
48	16.5 (0.65)	2671 (600)	890 (200)	192 (129)	201 (135)
72	19.7 (0.78)	2671 (600)	890 (200)	304 (204)	323 (207)

Fiber Count	Maximum Crush Resistance (N/mm)	Operating Temperature °C (°F)	Installation Temperature °C (°F)	Storage Temperature °C (°F)	Minimum Bend Radius	
					Installation	Long Term
2-72	22	-40 to 80 (-40 to 176)	-10 to 80 (14 to 176)	-40 to 80 (-40 to 176)	20 x DIA.	10 x DIA.

Because we continuously improve our products, Siemon reserves the right to change specifications and availability without prior notice.