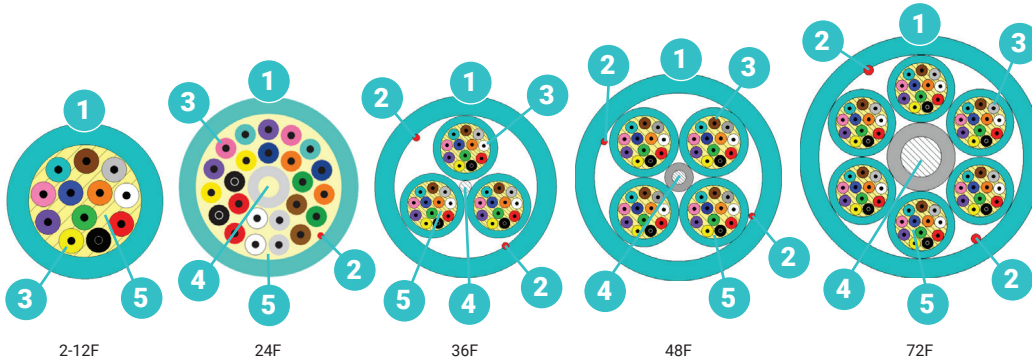


XGLO® & LightSystem® Indoor Tight Buffer Distribution Cables

Regional Availability – US



Siemon indoor tight buffer 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.



1. Jacket (Black)

Material: OFNR – PVC, OFNP – FRPVC

2. Rip Cord

Applied longitudinally under cable jacket

3. Identification

Color-coded fibers and buffer tubes

4. Central Strength Member

Lightweight solid dielectric

5. Aramid Yarns

Construction/Features

- 900µm tight buffer
- 250µm coated optical fiber
- Length markings in 2 ft. increments
- Colorcode Per TIA-598-D



XGLO Singlemode OS2

Standards Compliance

- ISO/IEC 11801: Amendment 1
- ANSI/TIA/EIA-568.3
- ANSI/TIA-598
- Telcordia GR-409-CORE
- ITU-T G.657.A1
- 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

XGLO (300) Multimode 50/125, OM3

Standards Compliance

- ISO/IEC 11801 OM3
- ANSI/TIA/EIA-568.3
- ANSI/TIA-598
- ANSI/TIA-492 AAAC
- 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)	1,000
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
FDD1 (Original-1300 nm)	2,000
100BASE-FX (1300 nm)	2,000

XGLO (550) Multimode 50/125, OM4

Standards Compliance

- ISO/IEC 11801 OM4
- ISO/IEC 11801: Amendment 2 OM4
- ANSI/TIA/EIA-568.3
- ANSI/TIA-598
- 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)	1,100
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
FDD1 (Original-1300 nm)	2,000
100BASE-FX (1300 nm)	2,000
100BASE-FX (1300 nm)	2,000

LightSystem Multimode 50/125, 62.5 OM1

Standards Compliance

- ISO/IEC 11801 OM1 (62.5/125)
- ISO/IEC 11801 (50/125)
- ANSI/TIA/EIA-568.3
- ANSI/TIA-598
- ANSI/TIA-492 AAAB
- 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)	NA
62.5/125µm	26
1000BASE-SX (850 nm)	NA
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
FDD1 (Original-1300 nm)	2,000
100BASE-FX (1300 nm)	2,000

Product Information

XGLO™ 10 Gigabit Ethernet Fiber Optic Cable

Minimum Performance Parameters for XGLO Singlemode Fiber

FIBER TYPE	WAVELENGTH nm	MAX ATTENUATION (dB/km)	ZERO DISPERSION WAVELENGTH (nm ² -km)	ZERO DISPERSION SLOPE (nm ² -km)	INDEX OF REFRACTION 1310 nm/1550 nm
SINGLEMODE (OS2)	1310	0.50	1312 ± 10	≤0.090	1.467/1.468
	1550	0.50	1312 ± 10	≤0.090	1.467/1.468
	1300-1322	<0.40	1312 ± 10	≤0.090	1.467/1.468

Minimum Performance Parameters for XGLO 50/125µm Multimode Fiber

FIBER TYPE	GUARANTEED GIGABIT TRANSMISSION DISTANCE (m)		GUARANTEED 10 GIGABIT TRANSMISSION DISTANCE (m)		MIN BANDWIDTH (MHz · km)		MAX 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

LightSystem Gigabit Ethernet Fiber Optic Distribution Cable

Minimum Performance Parameters for LightSystem 62.5/125µm Multimode Fiber

FIBER TYPE	WAVELENGTH nm	MAX ATTENUATION (dB/km)	MIN MODAL BANDWIDTH (MHz · km)	GUARANTEED GIGABIT TRANSMISSION DISTANCE (m)	INDEX OF REFRACTION
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 Physical Specifications

Physical Specifications (All Values Are Nominal)		MAX PULLING TENSION – NEWTONS (lbs)*					
FIBER COUNT	NOMINAL CABLE DIAMETER mm (in)	Installation			Long Term		
		OFNR	OFNP	LSOH	OFNR	OFNP	LSOH
2	4.8 (0.19)/4.3 (0.17)/4.8 (0.19)	400 (90)	400 (90)	400 (90)	120 (27)	120 (27)	120 (27)
4	4.8 (0.19)/4.3 (0.17)/4.8 (0.19)	445 (100)	440 (99)	445 (100)	133 (30)	132 (30)	133 (30)
6	5.7 (0.22)/4.6 (0.18)/6.5 (0.26)	569 (128)	440 (99)	660 (148)	171 (38)	132 (30)	198 (45)
12	6.2 (0.24)/5.5 (0.22)/7.1 (0.28)	667 (150)	560 (126)	667 (150)	200 (45)	168 (38)	200 (45)
24	8.5 (0.33)/7.3 (0.29)/7.6 (0.30)	1282 (288)	667 (150)	1282 (288)	400 (90)	200 (45)	400 (90)
36	14.1 (0.56)/12.6 (0.50)/14.1 (0.56)	1320 (297)	1320 (297)	1320 (297)	396 (89)	396 (89)	396 (89)
48	15.0 (0.59)/14.2 (0.56)/15.0 (0.59)	2670 (600)	2670 (600)	2670 (600)	800 (180)	800 (180)	800 (180)
72	18.6 (0.73)/17.0 (0.67)/18.3 (0.72)	2670 (600)	2670 (600)	2670 (600)	800 (180)	800 (180)	800 (180)

*2-12F and 24F Fiber have lower ratings than ICEA S-87-640.

FIBER COUNT	MAX CRUSH RESISTANCE (N/mm)	MIN FLEX RESISTANCE CYCLES	OPERATION TEMPERATURE °C	INSTALLATION TEMPERATURE °C	STORAGE TEMPERATURE °C	MIN BEND RADIUS	
						Installation	Long Term
2-24	10/10/5	25/100/25	-20-70 (OFNP 0-70)	-10-60 (OFNP 0-60)	-40-70	15 x DIA	10 x DIA
36-72	10	25/100/25	-20-70 (OFNP 0-70)	-10-60 (OFNP 0-60)	-40-70	15 x DIA	10 x DIA

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

Ordering Information

XGLO Multimode Laser Optimized 50/125 OM3, OM4 (Aqua Jacket), Singlemode OS2 (Yellow Jacket), LightSystem Multimode 62.5/125 OM1(Orange Jacket)

9BB (X) (X) (XXXX) - (XXXX) A

FIBER TYPE	FIBER JACKET	FIBER COUNT	PERFORMANCE
5 = 50/125µm 6 = 62.5/125µm 8 = Singlemode	R = Riser OFNR P = Plenum OFNP	002B = 2 (1 Tube with 2 Fibers) 004C = 4 (1 Tube with 4 Fibers) 006D = 6 (1 Tube with 6 Fibers) 012G = 12 (1 Tube with 12 Fibers) 024L = 24 (1 Tube with 24 Fibers) 036G = 36 (3 Tubes with 12 Fibers) 048G = 48 (4 Tubes with 12 Fibers) 072G = 72 (6 Tubes with 12 Fibers)	G109 = OM1 62.5µm T312 = OM3 50µm Laser Optimized T512 = OM4 50µm Laser Optimized E205 = OS2 Singlemode

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

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

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