



XGLO™ & LightSystem® Interlocking Aluminum Armor Indoor Tight Buffer Fiber Cable

Siemon interlocking aluminum armor indoor tight buffer fiber cables are ideal for data centers, campus and building backbones as well as industrial applications. The interlocking armor cable is a robust aluminum armored design that provides higher compression crush strength, rodent resistance and increased security. Siemon interlocking armor fiber cables may be installed as an alternative to traditional fiber cables in plenum inner duct or conduit, providing a less expensive single-pull solution with estimated savings of 25-50% in materials and estimated labor savings up to 60%. Siemon fiber optic cables are offered in LightSystem and XGLO configurations supporting high-speed, high power applications such as Gigabit Ethernet, 10 Gigabit Ethernet, Gigabit ATM and Fiber Channel.

ORDERING INFORMATION

XGLO Multimode Laser Optimized (Aqua Jacket), Singlemode (Yellow Jacket)

Part #	Fiber Count	Construction
9BC(X)(X)006D-(XXXX)A	6	1 tube of 6 fibers
9BC(X)(X)012G-(XXXX)A	12	1 tube of 12 fibers
9BC(X)(X)024L-(XXXX)A	24	1 tube of 24 fibers
9BC(X)(X)036G-(XXXX)A	36	3 tubes of 12 fibers
9BC(X)(X)048G-(XXXX)A	48	4 tubes of 12 fibers
9BC(X)(X)072G-(XXXX)A	72	6 tubes of 12 fibers
9BC(X)(X)096G-(XXXX)A	96	8 tubes of 12 fibers
9BC(X)(X)144G-(XXXX)A	144	12 tubes of 12 fibers

Use 1st (X) to specify fiber type: **5** = 50/125µm Laser Optimized, **8** = Singlemode
 Use 2nd (X) to specify cable rating: **R** = OFCR, **P** = OFCP
 Use (XXXX) to specify class performance:
T312 = OM3, 50µm Laser Optimized, **E205** = OS1, Singlemode, **T512** = OM4, 50µm Laser Optimized

LightSystem Multimode (Orange Jacket)

Part #	Fiber Count	Construction
9BC(X)(X)006D-(XX)09A	6	1 tube of 6 fibers
9BC(X)(X)012G-(XX)09A	12	1 tube of 12 fibers
9BC(X)(X)024L-(XX)09A	24	1 tube of 24 fibers
9BC(X)(X)036G-(XX)09A	36	3 tubes of 12 fibers
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9BC(X)(X)096G-(XX)09A	96	8 tubes of 12 fibers
9BC(X)(X)144G-(XX)09A	144	12 tubes of 12 fibers

Use 1st (X) to specify fiber type: **5** = 50/125µm, **6** = 62.5/125µm
 Use 2nd (X) to specify cable rating: **R** = OFCR, **P** = OFCP
 Use (XX) to specify class performance: **T1** = OM2, 50µm, **G1** = OM1, 62.5µm

HIGHLIGHTS

- 900 µm tight buffer
- OFCR: Communications Type OFCR Engineering Testing Laboratories (ETL) or Underwriters Laboratories (UL) Type OFCR (Conductive Optical Fiber Riser Cable) and c(ETL or UL) OFC-FT6 75C.
- OFCP: Communications Type OFCP Engineering Testing Laboratories (ETL) or Underwriters Laboratories (UL) Type OFCP (Conductive Optical Fiber Plenum Cable) and c(ETL or UL) OFC-FT6 75C.
- Aluminum interlock offers greater than 10 times the crush resistance of a standard fiber cable
- Provides installation protection from bending and excessive pull tension
- Significant time and labor reductions versus conduit or inner duct installations

XGLO SM, OS1 STANDARDS COMPLIANCE		XGLO (550) MM, OM4 STANDARDS COMPLIANCE		XGLO (300) MM, OM3 STANDARDS COMPLIANCE		LIGHTSYSTEM MM, OM1, OM2 STANDARDS COMPLIANCE																																																																																									
<ul style="list-style-type: none"> • ISO/IEC 11801:2002 OS1 • ANSI/TIA/EIA-568-B.3 • Telcordia GR-409-CORE • ITU-T G.652.D • OFNR: Communications Type OFNR (UL) and CSA FT4 c(UL) • OFNP: Communications Type OFNP (UL) and CSA FT6 c(UL) 		<ul style="list-style-type: none"> • ISO/IEC 11801:2002 OM3 • ISO/IEC 11801:2002 Amendment 2 OM4 (Draft) • ANSI/TIA/EIA-568-C.3 • ANSI/TIA-492 AAAD • IEC 60793-2-10 Fiber Type A1.a.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) 		<ul style="list-style-type: none"> • ISO/IEC 11801:2002 OM3 • ANSI/TIA/EIA-568-B.3 • ANSI/TIA/EIA-568-B.3-1 • Telcordia GR-409-CORE • OFNR: Communications Type OFNR (UL) and CSA FT4 c(UL) • OFNP: Communications Type OFNP (UL) and CSA FT6 c(UL) 		<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-B.3 • ANSI/TIA-598-C • Telcordia GR-409-CORE • OFNR: Communications Type OFNR (UL) and CSA FT4 c(UL) • OFNP: Communications Type OFNP (UL) and CSA FT6 c(UL) 																																																																																									
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XGLO™ 10 Gigabit Ethernet Fiber Optic Distribution Cable (US)

Minimum Performance Parameters for XGLO 50/125µm Multimode Fiber

	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
XGLO 300 (OM3)	900	600	300	300	RML - 2000 OFL - 1500	OFL - 500	3.5	1.0	1.483	1.479
XGLO 550 (OM4)	1040	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

XGLO	Cable Type	Maximum Attenuation* (dB/km)		Zero Dispersion		Index of Refraction	
		1310 nm	1550 nm	Wavelength (nm)	Slope (nm ² -km)	1310 nm	1550 nm
	Inside Plant	0.50	0.50	1300-1324	<0.093	1.467	1.468

*Superior Low Water Peak Performance is exhibited across the full operating bandwidth

LightSystem® Gigabit Ethernet Fiber Optic Distribution Cable (US)

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

	Fiber Type	Wavelength nm	Typical Attenuation (dB/km)	Maximum Attenuation (dB/km)	Minimum Modal Bandwidth (MHz • km)	Guaranteed Gigabit Transmission Distance* (Meters)
LightSystem	50/125µm	850	2.6	3.5	500	550
		1300	0.6	1.0	500	550
	62.5/125µm	850	2.9	3.5	200	275
		1300	0.9	1.0	500	550

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

XGLO and LightSystem Physical Specifications

	Mode and Fiber Type	Core Size (Microns)	Cladding Size (Microns)	Coating Size (Microns)	Buffer Size (Microns)	Core Cladding
XGLO	50/125µm	50 ± 3	125 ± 2	245 ± 10	900 ± 50	≤ 3.0
	Singlemode	8.3 ± 1*	125 ± 1	245 ± 10	900 ± 50	≤ 0.8
Light-System	50/125µm	50 ± 3	125 ± 2	245 ± 10	900 ± 50	≤ 3.0
	62.5/125µm	62.5 ± 3	125 ± 2	245 ± 10	900 ± 50	≤ 3.0

MFD = Mode Field Diameter. 8.8 to 9.3 ± 0.5µm @ 1310nm

Fiber Count	Nominal Cable Diameter mm (in)		Maximum Pulling Tension Newtons (lbs)		Maximum = Net Weight kg/km (lbs/1000 ft.)	
	OFCR	OFCP	Installation	Long Term	OFCR	OFCP
6	15.8 (0.624)	13.1 (0.517)	1335 (300)	400 (90)	179 (120)	117 (79)
8	15.8 (0.624)	13.3 (0.523)	1335 (300)	400 (90)	188 (126)	129 (87)
12	18.8 (0.740)	14.8 (0.584)	1780 (400)	534 (120)	248 (166)	176 (119)
24	24.4 (0.961)	20.9 (0.821)	2640 (600)	800 (180)	412 (277)	347 (233)
48	24.4 (0.961)	23.4 (0.921)	2640 (600)	800 (180)	448 (301)	408 (274)
72	32.1 (1.265)	24.7 (0.974)	2640 (600)	800 (180)	643 (432)	537 (361)
96	32.1 (1.265)	31.1 (1.230)	2640 (600)	800 (180)	775 (521)	749 (503)
144	32.1 (1.265)	31.1 (1.230)	4445 (1000)	1335 (300)	802 (539)	756 (508)

Fiber Count	Minimum Crush Resistance (N/cm)	Minimum Flex Resistance Cycles	Operating Temperature (°C)		Storage Temperature (°C)		Minimum Bend Radius	
			OFCR	OFCP	OFCR	OFCP	Installation	Long Term
6-144	440 N/cm	100 Cycles	-40 to +75 °C	-20 to +75 °C	-40 to +85 °C	-20 to +75 °C	15 X DIA.	10 X DIA.