

# 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 applications such as Gigabit Ethernet, 10 Gigabit Ethernet, Gigabit ATM and Fiber Channel.

## Ordering Information

XGLO Multimode Laser Optimized 50/125 OM3, OM4 (Aqua Jacket), Singlemode OS1 (Yellow Jacket), LightSystem Multimode 62.5/125 OM1, 50/125 OM2 (Orange 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

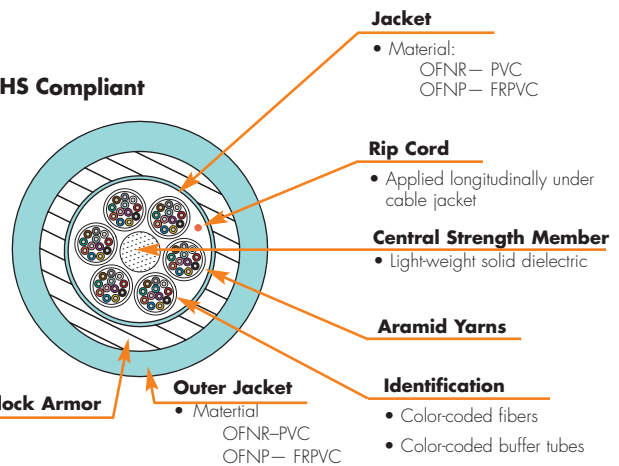
Use 1st (X) to specify fiber type: 5 = 50/125µm, 6 = 62.5/125µm, 8 = Singlemode  
 Use 2nd (X) to specify cable rating: **R** = OFCR, **P** = OFCP  
 Use (XXXX) to specify class performance: G109 = OM1 62.5µm, T109 = OM2 50µm, T312 = OM3 50µm Laser Optimized, T512 = OM4 50µm Laser Optimized, E205 = OS1/OS2 Singlemode  
**Note:** Contact Siemon Customer Service for cables available in fixed reel lengths. (unit of measure) F=feet

### 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



RoHS Compliant



XGLO Singlemode, OS1/OS2	XGLO (550) Multimode, 50/125, OM4	XGLO (300) Multimode 50/125, OM3	LIGHTSYSTEM Multimode 50/125, OM2; 62.5 OM1																																																																																								
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**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 <sup>2</sup> -km)	Index of Refraction
Singlemode (OS1/OS2)	1310	0.50	1312 ± 10	≤0.093	1.468
	1550	0.50	1312 ± 10	≤0.093	1.468
	1300-1324	<0.40	1312 ± 10	≤0.093	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 Physical Specifications

### PHYSICAL SPECIFICATIONS (All Values Are Nominal)

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.

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

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

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