XGLO® & LightSystem® Interlocking Aluminium Armor Indoor Tight Buffer Fiber Cable - Global

Siemon interlocking aluminium armour indoor tight buffer fiber cables are ideal for data centres, campus and building backbones as well as industrial applications. The interlocking armour cable is a robust aluminium armour design that provides higher compression crush strength, rodent resistance and increased security. Siemon interlocking armour 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 and Fiber Channel.

Ordering Information:

9BC(X)(X)(XXXX)-(XXX)A . . . . . LightSystem Multimode 62.5/125 OM1, XGLO Multimode Laser Optimised 50/125 OM3, OM4 Singlemode OS1/OS2

Fiber Type
6 = 62.5/125µm
5 = 50/125µm
8 = OS1/OS2 Singlemode

Length
A = Feet

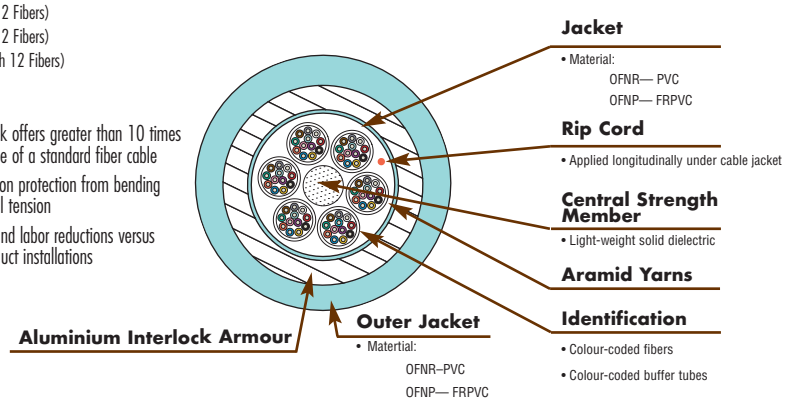
Cable Rating
R = OFCR
P = OFCP

Class Performance
G109 = OM1 62.5/125µm, Orange
T312 = OM3 50/125µm Laser Optimised, Aqua
T512 = OM4 50/125um Laser Optimised, Aqua
T516 = OM4 50/125um Laser Optimised, Erika Violet
E205 = OS1/OS2 Singlemode, Yellow

Fiber Count (Subunit)
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)
096G = 96 (8 Tubes with 12 Fibers)
144G = 144 (12 Tubes with 12 Fibers)

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.
- Aluminium 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



LIGHTSYSTEM Multimode 62.5/125, OM1

STANDARDS COMPLIANCE
- ISO/IEC 11801:2002 OM1 (62.5/125)
- ANSI/TIA-568.3-D
- ANSI/TIA-598-D
- ANSI/TIA-492AAAB
- 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
1000BASE-LX (1300 nm)	550
Fiber 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-568.3-D
- ANSI/TIA-598-D
- ANSI/TIA-492AAAC
- 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
Fiber 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 Ammendment 2 OM4
- ANSI/TIA-568.3-D
- 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
Fiber 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-568.3-D
- 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 Fiber Channel (Serial-1310 nm)	10,000
10G Fiber Channel (WDM-1310 nm)	10,000
1000BASE-LX (1300 nm)	5,000
Fiber Channel 266/1062 (1300 nm)	10,000
ATM 52/155/622 (1300 nm)	15,000

XGLO® & LightSystem® Interlocking Aluminium Armor Indoor Tight Buffer Fiber Cable - Global

LightSystem Gigabit Ethernet Fiber Optic Distribution Cable (Global)

Minimum Performance Parametres for LightSystem 62.5/125µm Multimode Fiber

Fiber Type	Wavelength nm	Maximum Attenuation (dB/km)	Minimum Modal Bandwidth (MHz • km)	Guaranteed Gigabit Transmission Distance Metres (Feet)
62.5/125 (0M1)	850	3.5	200	275 (902)
	1300	1.0	500	550 (1804)

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

XGLO® 10 Gigabit Ethernet Fiber Optic Cable (Global)

Minimum Performance Parametres 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

† 10GBASE-S †† 10GBASE-LX4

Minimum Performance Parametres for XGLO Singlemode Fiber

Fiber Type	Wavelength nm	Maximum Attenuation (dB/km)
Singlemode (0S1/0S2)	1310	0.50
	1550	0.40

**Attenation specifications are in compliance with TIA-492 CAAB*

XGLO and LightSystem Physical Specifications (Global)

PHYSICAL SPECIFICATIONS (All Values Are Nominal)

Fiber Count	Nominal Cable Diameter mm (in.)		Maximum Pulling Tension Newtons (lbf.)		Maximum = Net Weight kg/km (lb/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 Type	Maximum Crush Resistance (N/mm)	Operating Temperature °C (°F)		Installation Temperature °C (°F)		Storage Temperature °C (°F)		Minimum Bend Radius	
		OFCR	OFCP	OFCR	OFCP	OFCR	OFCP	Installation	Long Term
6 - 144	44	-40 to 75 (-40 to 167)	-20 to 75 (-4 to 167)	-20 to 75 (-4 to 167)	-0 to 75 (-32 to 167)	-40 to 85 (-40 to 185)	-20 to 75 (-4 to 167)	20 x DIA.	10 x DIA.

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