

# XGLO® & LightSystem® Indoor Tight Buffer - International

Siemon indoor tight buffer fiber cables are ideal for data centres, 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 and Fiber Channel.

## Ordering Information:

### Fiber Type

- 5L** = OM3 50/125µm Laser Optimised, Aqua
- 5V** = OM4 50/125µm Laser Optimised, Aqua
- 5VE** = OM4 50/125µm Laser Optimised, Erika Violet
- 6** = 62.5 Orange
- 8L** = OS1/OS2 Singlemode, Yellow

### Cable Rating

- 1** = Riser OFNR
- 2** = Plenum OFNP
- 3** = LSOH-3C

9F(XXX)B(X)-(XXX)(XXXX).....

LightSystem Multimode 62.5/125 OM1 and XGLO Multimode 50/125 OM3 and OM4, Singlemode OS1/OS2

### Length

- Length must be 4 digits including decimal point
- Example:**
- 1.00** = 1km
- 0.50** = 500m

### Fiber Count (Subunit)

- 02F** = 2 (1 Tube with 2 Fibers)
- 04A** = 4 (1 Tube with 4 Fibers)
- 06B** = 6 (1 Tube with 6 Fibers)
- 08C** = 8 (1 Tube with 8 Fibers)
- 12D** = 12 (1 Tube with 12 Fibers)
- 16K** = 16 (1 Tube with 16 Fibers)
- 24L** = 24 (1 Tube with 24 Fibers)
- 48D** = 48 (4 Tubes with 12 Fibers)
- 72D** = 72 (6 Tubes with 12 Fibers)

### Jacket

- Material:
- OFNR - PVC
- OFNP - FRPVC
- LSOH - LSOH Compound

### Rip Cord

- Applied longitudinally under cable jacket

### Central Strength Member

- Light-weight solid dielectric
- 48, 72 Strand

### Aramid Yarn

- Water blocking swellable yarn

### Identification

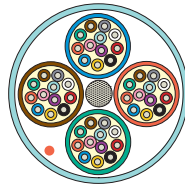
- Colour-coded fibers
- Colour-coded buffer tubes

## HIGHLIGHTS

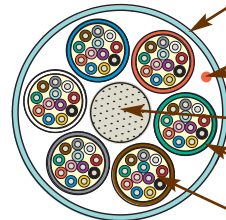
- 900µm tight buffer
- 250µm coated optical fiber
- Length markings in 0.61m (2 ft.) increments
- Colourcode per TIA-598-C



2-24 Fiber



48 Fiber



72 Fiber

LIGHTSYSTEM Multimode 62.5/125, Multimode, OM1		XGLO 300 Multimode 50/125, OM3		XGLO 550 Multimode 50/125, OM4		XGLO Singlemode, OS1/OS2	
STANDARDS COMPLIANCE		STANDARDS COMPLIANCE		STANDARDS COMPLIANCE		STANDARDS COMPLIANCE	
<ul style="list-style-type: none"> <li>• ISO/IEC 11801:2002 OM1 (62.5/125)</li> <li>• ANSI/TIA/EIA-568-C.3</li> <li>• ANSI/TIA-598-D</li> <li>• ANSI/TIA-492 AAAA</li> <li>• Telcordia GR-409-CORE</li> <li>• LSOH IEC 60332-3</li> </ul>		<ul style="list-style-type: none"> <li>• ISO/IEC 11801:2002 OM3</li> <li>• ANSI/TIA/EIA-568-C.3</li> <li>• ANSI/TIA-598-D</li> <li>• ANSI/TIA-492 AAAC</li> <li>• Telcordia GR-409-CORE</li> <li>• IEC 60793-2-10 Fiber Type A1a.2</li> <li>• LSOH IEC 60332-3</li> </ul>		<ul style="list-style-type: none"> <li>• ISO/IEC 11801:2002 OM3</li> <li>• ISO/IEC 11801:2002 Amendment 2 OM4</li> <li>• ANSI/TIA/EIA-568-C.3</li> <li>• ANSI/TIA-598-D</li> <li>• ANSI/TIA-492 AAAD</li> <li>• IEC 60793-2-10 Fiber Type A1a.3</li> <li>• Telcordia GR-409-CORE</li> <li>• LSOH IEC 60332-3</li> </ul>		<ul style="list-style-type: none"> <li>• ISO/IEC 11801:Ed 2.0 Amendment:1:2008</li> <li>• ANSI/TIA/EIA-568-C.3</li> <li>• ANSI/TIA-598-D</li> <li>• ANSI/TIA-492 CAAB</li> <li>• Telcordia GR-409-CORE</li> <li>• ITU-T G.652 C/D</li> <li>• LSOH IEC 60332-3</li> </ul>	
APPLICATIONS SUPPORT		APPLICATIONS SUPPORT		APPLICATIONS SUPPORT		APPLICATIONS SUPPORT	
APPLICATION	DISTANCE (m)	APPLICATION	DISTANCE (m)	APPLICATION	DISTANCE (m)	APPLICATION	DISTANCE (m)
10GBASE-S (850 nm)	N/A	10GBASE-S (850 nm)	550	10GBASE-S (850 nm)	300	10GBASE-L (1310 nm)	8,000
62.5/125µm	26	10GBASE-LX4 (1300 nm)	300	10GBASE-LX4 (1300 nm)	300	10GBASE-E (1550 nm)	30,000
1000BASE-S (850 nm)	N/A	1000BASE-S (850 nm)	1100	1000BASE-S (850 nm)	1000	10G Fiber Channel (Serial-1310 nm)	10,000
62.5/125µm	275	1000BASE-LX (1300 nm)	600	1000BASE-LX (1300 nm)	600	10G Fiber Channel (WDM-1310 nm)	10,000
1000BASE-LX (1300 nm)	550	Fiber Channel 266 (1300 nm)	1,500	Fiber Channel 266 (1300 nm)	1,500	1000BASE-LX (1300 nm)	5,000
Fiber Channel 266 (1300 nm)	1,500	ATM 622 (1300 nm)	500	ATM 622 (1300 nm)	500	Fiber Channel 266/1062 (1300 nm)	10,000
ATM 622 (1300 nm)	500	ATM 155 (1300 nm)	2,000	ATM 155 (1300 nm)	2,000	ATM 52/155/622 (1300 nm)	15,000
ATM 155 (1300 nm)	2,000	ATM 52 (1300 nm)	3,000	ATM 52 (1300 nm)	3,000		
ATM 52 (1300 nm)	3,000	FDD1 (Original-1300 nm)	2,000	FDD1 (Original-1300 nm)	2,000		
FDD1 (Original-1300 nm)	2,000	100BASE-FX (1300 nm)	2,000	100BASE-FX (1300 nm)	2,000		
100BASE-FX (1300 nm)	2,000						

# XGLO® & LightSystem® Indoor Tight Buffer - International

## LightSystem® Gigabit Ethernet Fiber Optic Cable

### 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.

### 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

† 10GBASE-S †† 10GBASE-LX4

### Minimum Performance Parameters for XGLO Singlemode Fiber

Fiber Type	Wavelength (nm)	Maximum Attenuation (dB/km)
Singlemode (OS1/OS2)	1310	0.40
	1550	0.30

## XGLO and LightSystem Indoor Tight Buffer (International) Physical Specifications

### PHYSICAL SPECIFICATIONS (All Values Are Nominal)

Fiber Count	Nominal Cable Diameter mm	Maximum Pulling Tension Newtons				Net Weight kg/km		
		Installation		Long Term				
		OFNR/ LSOH/ OFNP	OFNR/ LSOH	OFNP	OFNR/ LSOH	OFNP	OFNR	OFNP
2	4.8	660	440	198	132	18	19	19
4	4.8	660	440	198	132	20	21	20
6	4.8	660	440	198	132	22	23	22
8	5.4	660	440	198	132	26	28	27
12	6.2	660	440	198	132	33	35	33
16	7.8	1320	660	396	198	48	52	49
24	8.8	1320	660	396	198	61	65	62
48	17.4	1320	660	396	198	239	262	248
72	21.0	1320	660	396	198	361	396	375

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	10	-20 to 70 (-4 to 158)	0 to 60 (-32 to 140)	-40 to 70 (-40 to 158)	10 x DIA.	20 x DIA.

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