

# XGLO® & LightSystem® Indoor Tight Buffer (International)

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 Fibre Channel.

## Ordering Information

**LightSystem: Multimode 62.5/125 OM1, Multimode 50/125 OM2 (Orange Jacket)**

Part #	Fiber Count	Construction
9F(X)B(X)-2F(XXXX)	2	1 tube of 2 fibers
9F(X)B(X)-4A(XXXX)	4	1 tube of 4 fibers
9F(X)B(X)-6B(XXXX)	6	1 tube of 6 fibers
9F(X)B(X)-8C(XXXX)	8	1 tube of 8 fibers
9F(X)B(X)-12D(XXXX)	12	1 tube of 12 fibers
9F(X)B(X)-16K(XXXX)	16	1 tube of 16 fibers
9F(X)B(X)-24L(XXXX)	24	1 tube of 24 fibers
9F(X)B(X)-48D(XXXX)	48	4 tubes of 12 fibers
9F(X)B(X)-72D(XXXX)	72	6 tubes of 12 fibers

Use first (X) to specify fiber type: 6 = OM1 62.5/125µm, 5 = OM2 50/125µm  
 Use second (X) to specify cable rating: 1 = Riser OFNR, 2 = Plenum OFNP, 3 = LSOH  
 Use (XXXX) to specify length in kilometer. Use 4 characters including decimal point

For orders less than kilometer first "X" must be zero.

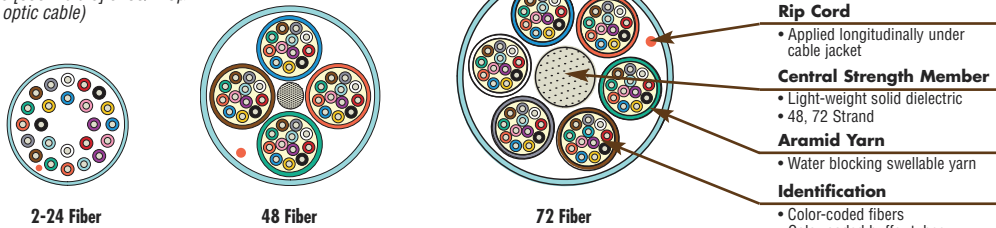
Example p/n: 9F5LB1-12D1.50: (1.5 kilometers [1500 meters] of 50/125µm laser optimized 12-strand riser rated fiber optic cable)

For orders of less than 1km, the first "X" must be zero (0).

Example: 9F5LB1-12D0.55 (.550 kilometers [550 meters] of 50/125µm laser optimized 12-strand riser rated fiber optic cable)

### HIGHLIGHTS

- 900µm tight buffer
- 250µm coated optical fiber
- Length markings in 0.6m (2 ft.) increments
- Color code per TIA-598-C



#### Jacket (Aqua)

- 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

- Color-coded fibers
- Color-coded buffer tubes

LIGHTSYSTEM Multimode 62.5/125, OM1 Multimode 50/125, OM2		XGLO 300 Multimode 50/125, OM3		XGLO 550 Multimode 50/125, OM4		XGLO Singlemode, OS1/OS2																																																																																					
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<ul style="list-style-type: none"> <li>• ISO/IEC 11801:2002 OM1 (62.5/125)</li> <li>• ISO/IEC 11801:2002 OM2 (50/125)</li> <li>• ANSI/TIA/EIA-568-C.3</li> <li>• ANSI/TIA-598-C</li> <li>• ANSI/TIA-492 AAAB</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-C</li> <li>• ANSI/TIA-492 AAAC</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>• ISO/IEC 11801:2002 Amendment 2 OM4</li> <li>• ANSI/TIA/EIA-568-C.3</li> <li>• ANSI/TIA-598-C</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-C</li> <li>• Telcordia GR-409-CORE</li> <li>• ITU-T G.652 C/D</li> <li>• LSOH IEC 60332-3</li> </ul>	<b>APPLICATIONS SUPPORT</b>	<b>APPLICATIONS SUPPORT</b>	<b>APPLICATIONS SUPPORT</b>	<b>APPLICATIONS SUPPORT</b>																																																																																				
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# XGLO® & LightSystem® Indoor Tight Buffer (International)

## LightSystem® Gigabit Ethernet Fiber Optic Cable

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

Fiber Type	Wavelength nm	Maximum Attenuation (dB/km)	Minimum Modal Bandwidth (MHz·km)	Guaranteed Gigabit Transmission Distance (Meters)	Index of Refraction
62.5/125 (OM1)	850	3.5	200	275	1.495
	1300	1.0	500	550	1.490
50/125 (OM2)	850	3.5	500	550	1.483
	1300	1.0	500	550	1.479

\*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)		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

Fiber Type	Wavelength (nm)	Maximum Attenuation (dB/km)	Zero Dispersion Wavelength (nm)	Zero Dispersion Slope (nm·km)	Index of Refraction
Singlemode (OS1/OS2)	1310	≤0.40	1312 ± 10	≤0.093	1.468
	1550	≤0.40	1312 ± 10	≤0.093	1.468
	1300 - 1324	≤0.30	1312 ± 10	≤0.093	1.468

## XGLO and LightSystem Indoor Tight Buffer Physical Specifications

### PHYSICAL SPECIFICATIONS (All Values Are Nominal)

Fiber Count	Nominal Cable Diameter mm	Maximum Pulling Tension Newtons				Nominal Net Weight kg/km	
		Installation		Long Term			
		OFNR/ LSOH/ OFNP	OFNR/ LSOH	OFNP	OFNR/ LSOH	OFNP	OFNR/ LSOH
2	4.8	400	400	120	120	17	20
4	4.8	660	440	198	132	19	22
6	4.8	660	440	198	132	22	25
8	5.8	900	560	270	168	28	31
12	5.8	900	560	270	168	32	36
16	7.8	1320	660	396	198	49	52
24	8.8	1320	660	396	198	61	65
48	16.0	2700	1000	810	300	200	207
72	19.6	2700	1000	810	300	310	322

Fiber Count	Maximum Crush Resistance (N/mm)	Maximum Crush Resistance (N/mm)	Operating Temperature °C	Storage Temperature °C	Minimum Bend Radius	
					Installation	Long Term
2-24	22	25/ 100	-20 to 70	-40 to 70	15 x DIA.	10 x DIA.
48-72	22	25/ 100	-20 to 70	-40 to 70	20 x DIA.	10 x DIA.

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

XGLO® and LightSystem® are trademarks of Siemon

