



## LQ-Series Plenum-rated Indoor/Outdoor Loose Tube

The LQ-Series I/O plenum-rated fiber optic loose tube cables are designed to reduce network cabling costs by eliminating the need to use different cables within a pathway that includes outside plant (OSP) and inside plant (ISP) segments. This dual rating allows for the LQ-Series cable to be transitioned from the OSP pathway and routed within the building space without the need to splice to a separate flame-rated cable installed in a protective conduit. This feature saves space, material costs and installation time.

The cable construction consists of 12-fiber, gel-free buffer tubes stranded around a central strength member. The finished core is jacketed with a highly flame-retardant, UV-resistant thermoplastic. The LQ-Series cable is available with 12 up to 144 single-mode or multimode fibers.

### Applications

- Inter-building campus backbone connections
- Suitable for installing in OSP buried pathways or above-ground exposed cable trays
- Cable routes that require cables to transit OSP spaces and inside plant environments that require cables to be riser or plenum rated

### Fiber Specifications

FIBER TYPE	ISO/IEC	AFL FIBER IDENTIFIER	MAXIMUM ATTENUATION (dB/km)			OVERFILL LAUNCH MIN. BANDWIDTH (MHz•km)		EMBC (MHz•km)	GIGABIT ETHERNET MIN. LINK DISTANCE (meters)		10 GIGABIT ETHERNET MIN. LINK DISTANCE (meters)	
			850 nm	1310 nm	1550 nm	850 nm	1310 nm		850 nm	1300 nm	850 nm	1300 nm
62.5 Giga-Link™ 300	OM1	6	3.5	1.2	N/A	200	600	N/A	300	550	32	—
50 Giga-Link™ 600	OM2	5	3.5	1.5	N/A	500	500	N/A	600	600	82	—
50 Laser-Link 300	OM3	L	3.0	1.2	N/A	1,500	500	2,000	1,000	550	300	—
50 Laser-Link 550	OM4	C	3.0	1.2	N/A	3,500	500	4,700	1,040	550	550	—
Single-mode (ITU G.652.D/G.657.A1)	OS2	9	N/A	0.4	0.3	N/A	N/A	N/A	N/A	5,000	N/A	10,000

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### Mechanical Data

AFL NO.	FIBER COUNT	DIAMETER Inches (mm)	WEIGHT lbs/1000ft (kg/km)	SHORT-TERM/INSTALLATION		LONG-TERM/STATIC	
				MAX TENSILE LOAD lbs (N)	MIN BEND RADIUS inches (cm)	MAX TENSILE LOAD lbs (N)	MIN BEND RADIUS inches (cm)
LQ012★3018XB:C4C	12	0.39 (10.0)	62 (92)	300 (1334)	5.9 (15)	90 (400)	3.9 (10)
LQ024★3018XB:C4C	24	0.39 (10.0)	62 (93)	300 (1334)	5.9 (15)	90 (400)	3.9 (10)
LQ036★3018XB:C4C	36	0.39 (10.0)	63 (94)	300 (1334)	5.9 (15)	90 (400)	3.9 (10)
LQ048★3018XB:C4C	48	0.39 (10.0)	64 (95)	300 (1334)	5.9 (15)	90 (400)	3.9 (10)
LQ072★3018XB:C6C	72	0.46 (11.8)	91 (135)	600 (2669)	7.0 (18)	180 (801)	4.6 (12)
LQ096★3018XB:C8C	96	0.54 (13.6)	125 (185)	600 (2669)	8.0 (21)	180 (801)	5.4 (14)
LQ144★3018XB:CCC	144	0.69 (17.5)	220 (315)	600 (2669)	10.4 (26)	180 (801)	6.9 (18)

\* Fiber Types – Replace asterisk (★) in AFL number with number in the Fiber Specifications table on previous page.

### Qualifications

GOVERNING BODY	STANDARD CODE	COMPONENT
Telcordia	GR-20-CORE, Issue 4	Fiber, Cable
ICEA	S-104-696, 2013	Cable
UL	444	Outer Jacket
NEC	OFNP, CSA FT-6	Cable

### Temperature Specifications

TEMPERATURE RANGE	
Operation	-40°C to +70°C
Storage	-40°C to +70°C
Installation	-15°C to +60°C

Contact AFL for your customized cable solution.