

## Gel-Free Non-Armored OSP Loose Tube (LE Series Gel-Free SJ)

AFL LE-Series Gel-Free Single Jacket fiber optic cables incorporate dry water-absorption technology within the fiber-containing buffer tubes. This results in user-friendly handling of fibers during routing and termination within the splice enclosures.

### Features

- Fiber counts up to 216
- Gel-free buffer tubes reduce fiber prep termination time
- Reverse-oscillated (SZ stranded) to allow slack for mid-span access
- UV-stabilized outer jacket for long-term performance in aerial applications

### Applications

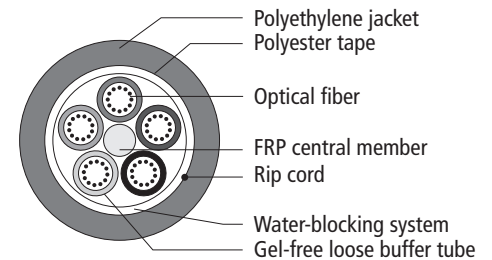
- Distribution
- Underground Duct
- Long Haul Networking
- Building Interconnections (Campus LAN)
- Local Loop
- Lashed Aerial

### Typical Lengths

FIBER COUNT	MAXIMUM LENGTHS*	
	SINGLE-MODE	
	FEET	METERS
12 - 60	22,900	7,000
72 - 96	22,900	7,000
97 - 144	22,900	7,000

\* Longer lengths may be available upon request.

### Cable Components



### Fiber Specifications

FIBER TYPE	MAXIMUM ATTENUATION (dB/km)				OVERFILL LAUNCH MIN. BANDWIDTH (MHz•km)		GIGABIT ETHERNET MIN. LINK DISTANCE (meters)	
	850 nm	1300 nm	1310 nm	1550 nm	850 nm	1300 nm	850 nm	1300 nm
(9) Single-mode	N/A	N/A	0.35	0.25	N/A	N/A	N/A	5000
(AZ) Corning Single-mode	N/A	N/A	0.35	0.25	N/A	N/A	N/A	5000

Actual link distances may be constrained by attenuation, depending on specific loss budget.

*continued*  
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### Mechanical Data

AFL NO.	FIBER COUNT	NO. OF TUBES FIBERS/ TUBE	NOMINAL DIAMETER Inches (mm)	NOMINAL WEIGHT lbs/1,000 ft (kg/km)	MAXIMUM TENSILE LOAD		MINIMUM BEND RADIUS	
					lbs (N)		Inches (cm)	
					SHORT TERM	LONG TERM	SHORT TERM	LONG TERM
LE012*C5101N1D	12	1/12 (4 fillers)	0.37 (9.5)	44 (65)	600 (2670)	180 (800)	7.4 (19)	5.6 (14)
LE024*C5101N1D	24	2/12 (3 fillers)	0.37 (9.5)	44 (65)	600 (2670)	180 (800)	7.4 (19)	5.6 (14)
LE048*C5101N1D	48	4/12 (1 filler)	0.37 (9.5)	42 (63)	600 (2670)	180 (800)	7.4 (19)	5.6 (14)
LE072*C5101N1D	72	6/12 (no fillers)	0.41 (10.3)	50 (75)	600 (2670)	180 (800)	8.2 (21)	6.2 (16)
LE096*C8101N1D	96	8/12 (no fillers)	0.47 (11.9)	68 (101)	600 (2670)	180 (800)	9.4 (24)	7.1 (18)
LE144*CC101N1D	144	12/12 (no fillers)	0.61 (15.3)	110 (163)	600 (2670)	180 (800)	12.2 (31)	9.2 (22)

Note: Diameter and weight subject to change without notice

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

### Reel Information

ITEM	REEL A		REEL B		REEL C		REEL D		REEL E	
	INCHES	CM	INCHES	CM	INCHES	CM	INCHES	CM	INCHES	CM
Reel Height	42	106.7	58	147.3	66	167.6	72	182.8	84	213.4
Reel Width Outside	36	91.4	38	96.5	42	106.7	42	106.7	40	101.6
Reel Width Inside	32	81.6	32	81.3	36	91.4	36	91.4	34	86.4
Drum Diameter	23	58.7	28	71.1	36	91.4	36	91.4	35	88.9
Arbor Hole Diameter	3	7.9	3	7.9	3	7.9	3	7.9	3	7.9
Reel Weight With Lagging	180 lbs	82 kg	420 lbs	191 kg	685 lbs	311 kg	710 lbs	320 kg	950 lbs	431 kg

AFL typically provides Loose Tube cable on several standard sizes of non-returnable wooden reels. Non-standard reel sizes are available upon request.

Larger reel sizes may be required to accommodate long cable lengths.

### Qualifications

GOVERNING BODY	STANDARD CODE	COMPONENT
Telcordia	GR-20-CORE	Cable
ICEA	640	Cable
TIA	598-D	Fiber

### Temperature Specifications

TEMPERATURE RANGE	
OPERATION	-40°C to +70°C
STORAGE	-40°C to +75°C
INSTALLATION	-30°C to +70°C

Contact AFL for your customized cable solution.