

Gel-Free Single-Jacket Single-Armor OSP Loose Tube (LE Series Gel-Free SASJ)

AFL LE-Series Gel-Free Single Jacket Single Armor fiber optic cables are designed for direct bury, duct and aerial lashed installations outside plant communications infrastructure applications. The corrugated steel armor layer adds additional crush and cut-through resistance making this product line a good choice for campus network applications. The product line incorporates the latest dry water-absorption technology within the fiber-containing buffer tubes which results in user-friendly handling of fibers during routing and termination within the splice enclosures.

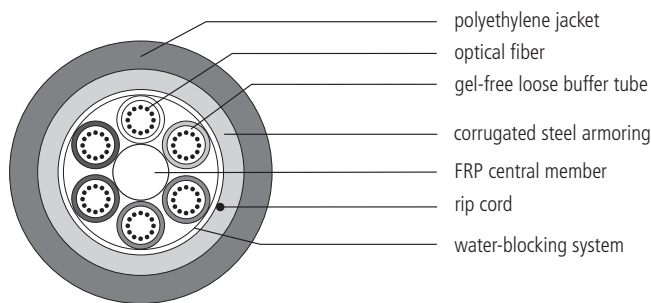
Features

- Gel-free buffer tubes reduce fiber prep termination time
- SZ-stranded cable core for easy mid-span access of fibers
- Corrugated Steel Armor for improved crush and rodent resistance in direct-bury installations
- UV-stabilized outer jacket for long-term performance in aerial applications
- 6 to 288 fibers allow for specific cable choices for multiple applications
- Standards compliance:
 - ANSI/ICEA S-87-640
 - Telcordia GR-20
 - RDUP PE-90

Temperature Specifications

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

Cable Components



Typical Lengths

MAXIMUM LENGTHS*				
FIBER COUNT	SINGLE-MODE		MULTIMODE	
	FEET	METERS	FEET	METERS
6 - 144	19,686	6,000	19,686	6,000

* Longer lengths may be available upon request.

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
(6) 62.5/125 GIGA-Link™ 300	3.5	1.2	N/A	N/A	200	600	300	550
(5) 50/125 GIGA-Link™ 600	2.9	0.9	N/A	N/A	500	500	600	600
(L) 50/125 Laser-Link™ 300	2.9	0.9	N/A	N/A	1500	500	900	550
(9) Single-mode	N/A	N/A	0.35	0.25	N/A	N/A	N/A	5000
(Q) Non-zero Dispersion-shifted Single-mode	N/A	N/A	N/A	0.25	N/A	N/A	N/A	N/A
(K) AFL G.657.A1 Single-mode	N/A	N/A	0.35	0.25	N/A	N/A	N/A	5000

Gigabit Ethernet Minimum Link Distances are based on "bandwidth"/modal dispersion constraints. Actual link distances may be constrained by attenuation, depending on specific loss budget.

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Mechanical Data

AFL NO.	FIBER COUNT	NO. OF TUBES	NOMINAL DIAMETER	NOMINAL WEIGHT	MAXIMUM TENSILE LOAD		MINIMUM BEND RADIUS	
					LBS (N)		INCHES (CM)	
		FIBERS/ TUBE	INCHES (MM)	LBS/1,000FT (KG/KM)	SHORT TERM	LONG TERM	SHORT TERM	LONG TERM
LE012★C5201S1D	12	1/12 (4 fillers)	0.50 (12.6)	95 (141)	600 (2670)	180 (800)	10.0 (25)	5.0 (13)
LE024★C5201S1D	24	2/12 (3 fillers)	0.50 (12.6)	95 (141)	600 (2670)	180 (800)	10.0 (25)	5.0 (13)
LE036★C5201S1D	36	3/12 (2 fillers)	0.50 (12.6)	94 (140)	600 (2670)	180 (800)	10.0 (25)	5.0 (13)
LE048★C5201S1D	48	4/12 (1 filler)	0.50 (12.6)	94 (140)	600 (2670)	180 (800)	10.0 (25)	5.0 (13)
LE060★C5201S1D	60	5/12 (no fillers)	0.50 (12.6)	94 (139)	600 (2670)	180 (800)	10.0 (25)	5.0 (13)
LE072★C6201S1D	72	6/12 (no fillers)	0.53 (13.4)	105 (156)	600 (2670)	180 (800)	10.6 (27)	5.3 (13)
LE096★C8201S1D	96	8/12 (no fillers)	0.59 (15.0)	127 (189)	600 (2670)	180 (800)	11.8 (30)	5.9 (15)
LE144★CC201S1D	144	12/12 (no fillers)	0.73 (18.5)	182 (271)	600 (2670)	180 (800)	14.6 (37)	7.3 (19)

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.