



Armored Loose Tube Cable – Triple Jacket/Double Armor

Acting as the backbone for most of today’s fiber based systems, stranded fiber optic cables play a critical role in the high speed network. AFL’s Armored Loose Tube Triple Jacket/Double Armor fiber optic cables are designed to provide high fiber counts with the flexibility and versatility required for today’s most demanding installations, including direct buried. With fiber counts up to 144 and S-Z strand designs for easy mid-span access, AFL’ cables comply with EIA/TIA, REA/RUS PE-90 and GR-20. Industry standard designs combined with innovative technologies, such as a dry core product, yield a world class cable that will support today’s and tomorrow’s technological needs.

Applications

- Long Haul Networking
- Building Interconnections (Campus LAN)
- Trunking Lines Direct to Telecommunications Closet
- Local Loop
- Distance Learning
- Distribution
- Intra-building Backbones

Temperature Range

PARAMETER	VALUE
Operating	-40°C to +70°C
Storage	-40°C to +75°C
Installation	-30°C to +60°C

Cable Components



Typical Lengths

MAXIMUM LENGTHS*				
FIBER COUNT	SINGLE-MODE		MULTIMODE	
	FEET	METERS	FEET	METERS
6 - 72	20,000	6,000	20,000	6,000
84 - 96	14,700	4,500	14,700	4,500
108 - 120	13,000	4,000	13,000	4,000
132 - 144	11,100	3,400	11,100	3,400

* Longer lengths may be available upon request.

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Optical Information

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
(8) 62.5/125 GIGA-Link™ 1000	3.5	1.2	N/A	N/A	350	600	500	1000
(5) 50/125 GIGA-Link™ 600	2.9	0.9	N/A	N/A	500	500	600	600
(7) 50/125 GIGA-Link™ 2000	2.9	0.9	N/A	N/A	500	800	750	2000
(L) 50 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	N/A

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.

Ordering Information

AFL NO.	FIBER COUNT	NUMBER OF TUBES/FIBERS	NOMINAL DIAMETER		NOMINAL WEIGHT		MAXIMUM TENSILE LOAD		MINIMUM BEND RADIUS	
			INCHES	MM	LBS/1,000FT	KG/KM	LBS (N)		INCHES (CM)	
							SHORT TERM	LONG TERM	SHORT TERM	LONG TERM
LE006★C5421S1	6	1w/6 (4 fillers)	0.78	19.7	243	362	600 (2670)	180 (800)	15.6 (39.4)	7.8 (19.7)
LE012★C5421S1	12	1w/12 (4 fillers)	0.78	19.7	243	362	600 (2670)	180 (800)	15.6 (39.4)	7.8 (19.7)
LE018★C5421S1	18	1w/12,1w/6 (3 fillers)	0.78	19.7	243	362	600 (2670)	180 (800)	15.6 (39.4)	7.8 (19.7)
LE024★C5421S1	24	2w/12 (3 fillers)	0.78	19.7	243	362	600 (2670)	180 (800)	15.6 (39.4)	7.8 (19.7)
LE030★C5421S1	30	2w/12,1w/6 (2 fillers)	0.78	19.7	243	362	600 (2670)	180 (800)	15.6 (39.4)	7.8 (19.7)
LE036★C5421S1	36	3w/12 (2 fillers)	0.78	19.7	243	362	600 (2670)	180 (800)	15.6 (39.4)	7.8 (19.7)
LE048★C5421S1	48	4w/12 (1 filler)	0.78	19.7	243	362	600 (2670)	180 (800)	15.6 (39.4)	7.8 (19.7)
LE060★C5421S1	60	5w/12 (no fillers)	0.78	19.7	243	362	600 (2670)	180 (800)	15.6 (39.4)	7.8 (19.7)
LE072★C6421S1	72	6w/12 (no fillers)	0.81	20.6	262	390	600 (2670)	180 (800)	16.2 (41.2)	8.1 (20.6)
LE084★C8421S1	84	7w/12 (1 filler)	0.88	22.3	302	450	600 (2670)	180 (800)	16.6 (44.3)	8.8 (22.3)
LE096★C8421S1	96	8w/12 (no fillers)	0.88	22.3	302	450	600 (2670)	180 (800)	16.6 (44.3)	8.8 (22.3)
LE108★CA421S1	108	9w/12 (1 filler)	0.94	24.0	346	515	600 (2670)	180 (800)	18.8 (48.0)	9.4 (24.0)
LE120★CA421S1	120	10w/12 (no fillers)	0.94	24.0	346	515	600 (2670)	180 (800)	18.8 (48.0)	9.4 (24.0)
LE132★CC421S1	132	11w/12 (1 filler)	1.02	25.9	392	585	600 (2670)	180 (800)	20.4 (51.8)	10.2 (25.9)
LE144★CC421S1	144	12w/12 (no fillers)	1.02	25.9	392	585	600 (2670)	180 (800)	20.4 (51.8)	10.2 (25.9)

Note: Diameter and weight subject to change without notice

★ Fiber Types – Replace asterisk (★) in AFL number with number corresponding to desired fiber type below.

- 5 = 50/125 μm multimode GIGA-Link™ 600
- 7 = 50/125 μm multimode GIGA-Link™ 2000
- 6 = 62.5/125 μm multimode GIGA-Link™ 300
- 8 = 62.5/125 μm multimode GIGA-Link™ 1000
- L = 50/125 μm multimode Laser-Link™ 300
- 9 = Single-mode
- Q = Non-zero dispersion-shifted single-mode