

Armored Loose Tube Cable – Single Jacket/Single 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 Single Jacket/Single 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's 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.

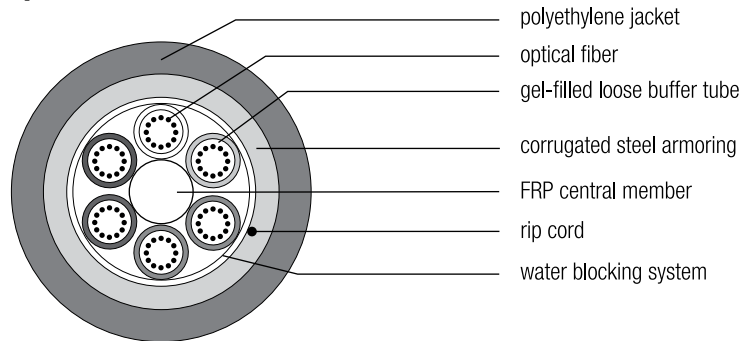
Product Applications

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

Temperature Range

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

Cable Components



Typical Lengths

FIBER COUNT	MAXIMUM LENGTHS*			
	SINGLE-MODE		MULTIMODE	
	FEET	METERS	FEET	METERS
6 - 144	20,000	6,000	20,000	6,000

* Longer lengths may be available upon request.

Optical Information

FIBER TYPE	MAXIMUM ATTENUATION (dB/km)				OVERFILL LAUNCH MIN. BANDWIDTH (MHz•km)		GIGABIT ETHERNET MINIMUM LINK DISTANCE (meters)	
	850nm	1300nm	1310nm	1550nm	850nm	1300nm	850nm	1300nm
(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	5000
(K) SM Futureguide SR-15e Bend Insensitive	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.

Armored Loose Tube Cable – Single Jacket/Single Armor

Ordering Information

PART NUMBER	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	LONGTERM	SHORT TERM	LONGTERM
LE006★C5201S1	6	1w/6 (4 fillers)	0.52	13.3	107	160	600 (2670)	200 (890)	10.7 (28.0)	5.4 (14.0)
LE012★C5201S1	12	1w/12 (4 fillers)	0.52	13.3	107	160	600 (2670)	200 (890)	10.7 (28.0)	5.4 (14.0)
LE018★C5201S1	18	1w/12,1w/6 (3 fillers)	0.52	13.3	107	160	600 (2670)	200 (890)	10.7 (28.0)	5.4 (14.0)
LE024★C5201S1	24	2w/12 (3 fillers)	0.52	13.3	107	160	600 (2670)	200 (890)	10.7 (28.0)	5.4 (14.0)
LE030★C5201S1	30	2w/12,1w/6 (2 fillers)	0.52	13.3	107	160	600 (2670)	200 (890)	10.7 (28.0)	5.4 (14.0)
LE036★C5201S1	36	3w/12 (2 fillers)	0.52	13.3	107	160	600 (2670)	200 (890)	10.7 (28.0)	5.4 (14.0)
LE048★C5201S1	48	4w/12 (1 filler)	0.52	13.3	107	160	600 (2670)	200 (890)	10.7 (28.0)	5.4 (14.0)
LE060★C5201S1	60	5w/12 (no fillers)	0.52	13.3	107	160	600 (2670)	200 (890)	10.7 (28.0)	5.4 (14.0)
LE072★C6201S1	72	6w/12 (no fillers)	0.56	14.2	121	181	600 (2670)	200 (890)	11.4 (29.0)	5.7 (15.0)
LE084★C8201S1	84	7w/12 (1 filler)	0.63	16.0	144	215	600 (2670)	200 (890)	12.8 (33.0)	6.4 (16.3)
LE096★C8201S1	96	8w/12 (no fillers)	0.64	16.3	144	215	600 (2670)	200 (890)	12.8 (33.0)	6.4 (16.3)
LE108★CA201S1	108	9w/12 (1 filler)	0.70	17.8	163	240	600 (2670)	200 (890)	14.2 (37.0)	7.1 (18.1)
LE120★CA201S1	120	10w/12 (no fillers)	0.71	18.1	163	240	600 (2670)	200 (890)	14.2 (37.0)	7.1 (18.1)
LE132★CC201S1	132	11w/12 (1 filler)	0.78	19.7	180	267	600 (2670)	200 (890)	15.7 (40.0)	7.9 (20.0)
LE144★CC201S1	144	12w/12 (no fillers)	0.79	20.0	180	267	600 (2670)	200 (890)	15.7 (40.0)	7.9 (20.0)

Note: Diameter and weight subject to change without notice

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

5 = 50/125µm multimode GIGA-Link™ 600
 7 = 50/125µm multimode GIGA-Link™ 2000
 6 = 62.5/125µm multimode GIGA-Link™ 300
 8 = 62.5/125µm multimode GIGA-Link™ 1000
 L = 50/125µm multimode Laser-Link™ 300
 9 = Single-mode
 Q = Non-zero dispersion-shifted single-mode
 K = SM Futureguide SR-15e Bend Insensitive

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.