

Non-Armored Loose Tube Cable

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 Non-Armored Loose Tube fiber optic cables are designed to provide high fiber counts with the flexibility and versatility required for today's most demanding installations. Our cables feature fiber counts up to 576, compliance with EIA/TIA and REA/RUS PE-90, and are S-Z stranded for easy mid-span access. 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.

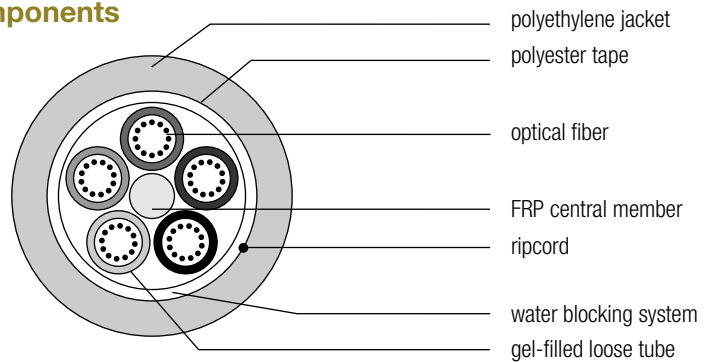
product applications

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

temperature range

Operating -40°C to +70°C
 Storage -40°C to +75°C
 Installation. 0°C to +70°C

cable components



mechanical data

FIBER COUNT	MAXIMUM LENGTHS*			
	SINGLE-MODE		MULTIMODE	
	feet	meters	feet	meters
6 - 60 Fibers	28,500	8,700	26,200	8,000
72 - 96 Fibers	32,800	10,000	26,200	8,000
108 -120 Fibers	31,100	9,500	26,200	8,000
132 - 144 Fibers	22,900	7,000	23,000	7,000
216 Fibers	19,600	6,000	20,000	7,000
288 - 432	14,100	4300	14,000	4,300
576	10,800	3300	11,000	3,300

* Longer lengths may be available upon request.

optical information

FIBER TYPE	MAXIMUM ATTENUATION (dB/km)			OVERFILL LAUNCH MIN. BANDWIDTH (MHz*km)		GIGABIT ETHERNET MIN. LINK Distance (meters)	
	850nm	1300nm	1550nm	850nm	1300nm	850nm	1300nm
(6) 62.5/125 GIGA-Link™ 300	3.5	1.2	N/A	200	600	300	550
(8) 62.5/125 GIGA-Link™ 1000	3.5	1.2	N/A	350	600	500	1000
(5) 50/125 GIGA-Link™ 600	3.5	1.2	N/A	500	500	600	600
(7) 50/125 GIGA-Link™ 2000	3.5	1.2	N/A	500	800	750	2000
(9) Single-mode	N/A	0.4	0.3	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.

5.12.04



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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	Long Term	Short Term	Long Term
LE006* C 5101N1	6	1 w/6 (4 fillers)	0.43	11.0	57	85	600 (2670)	200 (890)	8.7 (22.0)	4.3 (11.0)
LE012* C 5101N1	12	1w/12 (4 fillers)	0.43	11.0	57	85	600 (2670)	200 (890)	8.7 (22.0)	4.3 (11.0)
LE018* C 5101N1	18	1w/12,1w/6 (3 fillers)	0.43	11.0	60	90	600 (2670)	200 (890)	8.7 (22.0)	4.3 (11.0)
LE024* C 5101N1	24	2w/12 (3 fillers)	0.43	11.0	60	90	600 (2670)	200 (890)	8.7 (22.0)	4.3 (11.0)
LE030* C 5101N1	30	2w/12,1w/6 (2 fillers)	0.43	11.0	60	90	600 (2670)	200 (890)	8.7 (22.0)	4.3 (11.0)
LE036* C 5101N1	36	3w/12 (2 fillers)	0.43	11.0	60	90	600 (2670)	200 (890)	8.7 (22.0)	4.3 (11.0)
LE048* C 5101N1	48	4w/12 (1 filler)	0.43	11.0	60	90	600 (2670)	200 (890)	8.7 (22.0)	4.3 (11.0)
LE060* C 5101N1	60	5w/12 (no fillers)	0.43	11.0	60	90	600 (2670)	200 (890)	8.7 (22.0)	4.3 (11.0)
LE072* C 6101N1	72	6w/12 (no fillers)	0.45	11.5	71	105	600 (2670)	200 (890)	9.1 (23.0)	4.7 (12.0)
LE084* C 8101N1	84	7w/12 (1 filler)	0.52	13.3	91	135	600 (2670)	200 (890)	9.8 (25.0)	5.5 (14.0)
LE096* C 8101N1	96	8w/12 (no fillers)	0.52	13.3	91	135	600 (2670)	200 (890)	10.6 (27.0)	5.5 (14.0)
LE108* C A101N1	108	9w/12 (1 filler)	0.59	15.1	118	175	600 (2670)	200 (890)	11.4 (29.0)	5.9 (15.0)
LE120* C A101N1	120	10w/12 (no fillers)	0.59	15.1	118	175	600 (2670)	200 (890)	12.2 (31.0)	5.9 (15.0)
LE132* C C101N1	132	11w/12 (1 filler)	0.67	17.0	144	215	600 (2670)	200 (890)	12.6 (32.0)	6.7 (17.0)
LE144* C C101N1	144	12w/12 (no fillers)	0.67	17.0	144	215	600 (2670)	200 (890)	13.4 (34.0)	6.7 (17.0)
LE216* C I301N1	216	18w/12 (no fillers)	0.74	18.9	178	265	600 (2670)	200 (890)	15.0 (38.0)	7.5 (19.0)
LE288* C O301N1	288	12w/24 (no fillers)	0.85	21.6	239	355	600 (2670)	200 (890)	17.3 (44.0)	8.7 (22.0)
LE432* I O301N1	432	18w/24 (no fillers)	0.85	21.6	239	355	600 (2670)	200 (890)	17.3 (44.0)	8.7 (22.0)
LE576* O O301N1	576	24w/24 (no fillers)	1.00	25.3	309	460	600 (2670)	200 (890)	20.1 (51.0)	10.2 (26.0)

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
- 9 = Single-mode

reel information

Item	REEL A		REEL B		REEL C	
	inches	cm	inches	cm	inches	cm
Reel Height	42	106.7	58	147.3	66	167.6
Reel Width Outside	36	91.4	38	96.5	42	106.7
Reel Width Inside	32	81.6	32	81.3	36	91.4
Drum Diameter	23	58.7	28	71.1	36	91.4
Arbor Hole Diameter	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

AFL provides ADSS cable on three standard sizes of non-returnable wooden reels. Non-standard reel sizes are available upon request.