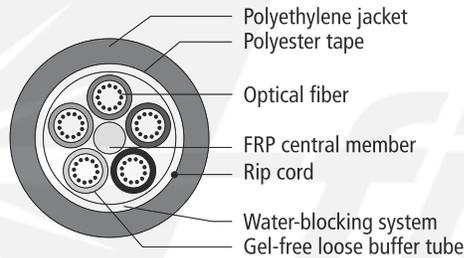


Gel-Free Non-Armored OSP Loose Tube (LE Series Gel-Free SJ)

AFL LE-Series Gel-Free Single Jacket fiber optic cables are designed for outside plant applications and intended for use in communication network connects requiring cable to be installed within duct systems or lashed to aerial messenger wire structures. 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.

Cable Components



Features

- Gel-free buffer tubes reduce fiber prep termination time
- SZ-stranded cable core for easy mid-span access of fibers
- 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 |

Typical Lengths

| FIBER COUNT | SINGLE-MODE | | MULTIMODE | |
|-------------|-------------|--------|-----------|--------|
| | FEET | METERS | FEET | METERS |
| 6 - 60 | 22,900 | 7,000 | 22,900 | 7,000 |
| 72 - 96 | 22,900 | 7,000 | 22,900 | 7,000 |
| 108 - 120 | 22,900 | 7,000 | 22,900 | 7,000 |
| 132 - 144 | 22,900 | 7,000 | 22,900 | 7,000 |
| 146 - 216 | 22,900 | 7,000 | 22,900 | 7,000 |
| 218 - 288 | 16,400 | 5,000 | 16,400 | 5,000 |
| 290 - 432 | 14,100 | 4,300 | 14,000 | 4,300 |
| 434 - 576 | 10,800 | 3,300 | 11,000 | 3,300 |

* 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 FIBERS/ TUBE | NOMINAL DIAMETER INCHES (MM) | NOMINAL WEIGHT LBS/1,000FT (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) | 0.39 (9.8) | 49 (73) | 600 (2670) | 180 (800) | 7.8 (20) | 3.9 (10) |
| LE024★C5101N1D | 24 | 2/12 (3 fillers) | 0.39 (9.8) | 49 (72) | 600 (2670) | 180 (800) | 7.8 (20) | 3.9 (10) |
| LE036★C5101N1D | 36 | 3/12 (2 fillers) | 0.39 (9.8) | 48 (72) | 600 (2670) | 180 (800) | 7.8 (20) | 3.9 (10) |
| LE048★C5101N1D | 48 | 4/12 (1 filler) | 0.39 (9.8) | 48 (71) | 600 (2670) | 180 (800) | 7.8 (20) | 3.9 (10) |
| LE060★C5101N1D | 60 | 5/12 (no fillers) | 0.39 (9.8) | 48 (71) | 600 (2670) | 180 (800) | 7.8 (20) | 3.9 (10) |
| LE072★C6101N1D | 72 | 6/12 (no fillers) | 0.42 (10.6) | 55 (82) | 600 (2670) | 180 (800) | 8.4 (21) | 4.2 (11) |
| LE096★C8101N1D | 96 | 8/12 (no fillers) | 0.48 (12.3) | 75 (118) | 600 (2670) | 180 (800) | 9.6 (25) | 4.8 (12) |
| LE144★CC101N1D | 144 | 12/12 (no fillers) | 0.62 (15.8) | 119 (178) | 600 (2670) | 180 (800) | 12.4 (32) | 6.2 (16) |
| LE216★CI301N1D | 216 | 18/12 (no fillers) | 0.62 (15.8) | 110 (163) | 600 (2670) | 180 (800) | 12.4 (32) | 6.2 (16) |
| LE288★CO301N1D | 288 | 24/12 (no fillers) | 0.75 (19.1) | 148 (220) | 600 (2670) | 180 (800) | 15.0 (38) | 7.5 (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.