



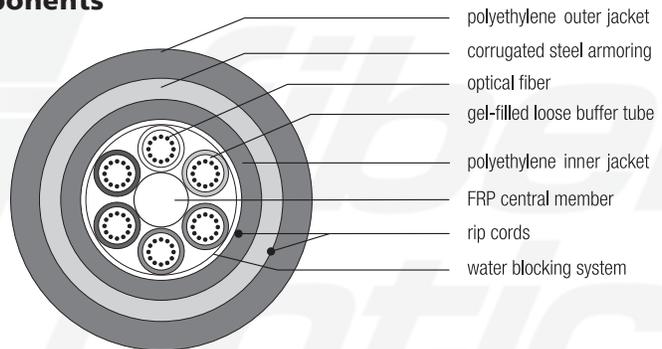
## Double-Jacket Single-Armor OSP Loose Tube (LE Series SADJ)

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 Double 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 312 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

### Cable Components



### 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 | MAXIMUM LENGTHS* |        |           |        |
|-------------|------------------|--------|-----------|--------|
|             | 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  |
| 146 - 312   | 10,000           | 3,000  | 10,000    | 3,000  |

\* 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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### 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★C5111S1 | 6           | 1w/6 (4 fillers)       | 0.59             | 15.0 | 128            | 190   | 600 (2670)           | 180 (800) | 12.4 (32.0)         | 5.9 (15.0) |
| LE012★C5111S1 | 12          | 1w/12 (4 fillers)      | 0.59             | 15.0 | 128            | 190   | 600 (2670)           | 180 (800) | 12.4 (32.0)         | 5.9 (15.0) |
| LE018★C5111S1 | 18          | 1w/12,1w/6 (3 fillers) | 0.59             | 15.0 | 128            | 190   | 600 (2670)           | 180 (800) | 12.4 (32.0)         | 5.9 (15.0) |
| LE024★C5111S1 | 24          | 2w/12 (3 fillers)      | 0.59             | 15.0 | 128            | 190   | 600 (2670)           | 180 (800) | 12.4 (32.0)         | 5.9 (15.0) |
| LE030★C5111S1 | 30          | 2w/12,1w/6 (2 fillers) | 0.59             | 15.0 | 128            | 190   | 600 (2670)           | 180 (800) | 12.4 (32.0)         | 5.9 (15.0) |
| LE036★C5111S1 | 36          | 3w/12 (2 fillers)      | 0.59             | 15.0 | 128            | 190   | 600 (2670)           | 180 (800) | 12.4 (32.0)         | 5.9 (15.0) |
| LE048★C5111S1 | 48          | 4w/12 (1 filler)       | 0.59             | 15.0 | 128            | 190   | 600 (2670)           | 180 (800) | 12.4 (32.0)         | 5.9 (15.0) |
| LE060★C5111S1 | 60          | 5w/12 (no fillers)     | 0.59             | 15.0 | 128            | 190   | 600 (2670)           | 180 (800) | 12.4 (32.0)         | 5.9 (15.0) |
| LE072★C6111S1 | 72          | 6w/12 (no fillers)     | 0.62             | 15.9 | 143            | 212   | 600 (2670)           | 180 (800) | 13.0 (33.0)         | 6.5 (16.4) |
| LE084★C8111S1 | 84          | 7w/12 (1 filler)       | 0.69             | 17.6 | 169            | 252   | 600 (2670)           | 180 (800) | 14.4 (36.4)         | 7.2 (18.2) |
| LE096★C8111S1 | 96          | 8w/12 (no fillers)     | 0.69             | 17.6 | 169            | 252   | 600 (2670)           | 180 (800) | 14.4 (36.4)         | 7.2 (18.2) |
| LE108★CA111S1 | 108         | 9w/12 (1 filler)       | 0.76             | 19.3 | 201            | 299   | 600 (2670)           | 180 (800) | 15.8 (40.2)         | 7.9 (20.1) |
| LE120★CA111S1 | 120         | 10w/12 (no fillers)    | 0.76             | 19.3 | 201            | 299   | 600 (2670)           | 180 (800) | 15.8 (40.2)         | 7.9 (20.1) |
| LE132★CC111S1 | 132         | 11w/12 (1 filler)      | 0.83             | 21.2 | 234            | 348   | 600 (2670)           | 180 (800) | 18.0 (46.0)         | 9.0 (22.9) |
| LE144★CC111S1 | 144         | 12w/12 (no fillers)    | 0.83             | 21.2 | 234            | 348   | 600 (2670)           | 180 (800) | 18.0 (46.0)         | 9.0 (22.9) |

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.