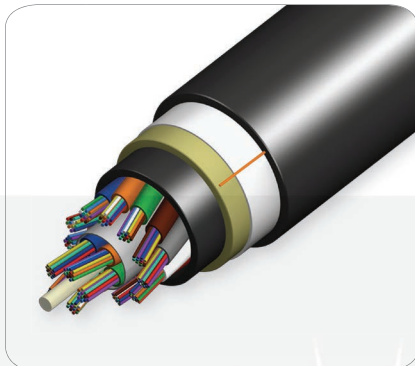




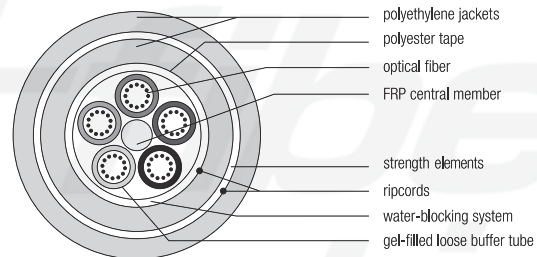
## Non-Armored Loose Tube Cable— Double Jacket (LE Series DJ)

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 Double Jacket Loose Tube fiber optic cables are designed to provide high fiber counts with the flexibility and versatility required for today's most demanding installations while incorporating a second jacket when extra mechanical protection is desired. With fiber counts up to 576 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
- Intrabuilding 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

| MAXIMUM 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        | 17,000      | 5,200  | 17,000    | 5,200  |
| 218 - 288        | 15,000      | 4,600  | 15,000    | 4,600  |
| 290 - 432        | 10,800      | 3,300  | 10,800    | 3,300  |
| 434 - 576        | 6,500       | 2,000  | 6,500     | 2,000  |

\* 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.

## Non-Armored Loose Tube Cable— Double Jacket (LE Series DJ)

### 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★C5111N1 | 6           | 1w/6 (4 fillers)        | 0.49             | 12.5 | 79             | 118   | 600 (2670)           | 200 (890) | 9.8 (25)            | 4.9 (13)  |
| LE012★C5111N1 | 12          | 1w/12 (4 fillers)       | 0.49             | 12.5 | 80             | 119   | 600 (2670)           | 200 (890) | 9.8 (25)            | 4.9 (13)  |
| LE018★C5111N1 | 18          | 1w/12, 1w/6 (3 fillers) | 0.49             | 12.5 | 81             | 120   | 600 (2670)           | 200 (890) | 9.8 (25)            | 4.9 (13)  |
| LE024★C5111N1 | 24          | 2w/12 (3 fillers)       | 0.49             | 12.5 | 81             | 120   | 600 (2670)           | 200 (890) | 9.8 (25)            | 4.9 (13)  |
| LE030★C5111N1 | 30          | 2w/12, 1w/6 (2 fillers) | 0.49             | 12.5 | 82             | 121   | 600 (2670)           | 200 (890) | 9.8 (25)            | 4.9 (13)  |
| LE036★C5111N1 | 36          | 3w/12 (2 fillers)       | 0.49             | 12.5 | 82             | 121   | 600 (2670)           | 200 (890) | 9.8 (25)            | 4.9 (13)  |
| LE048★C5111N1 | 48          | 4w/12 (1 filler)        | 0.49             | 12.5 | 83             | 123   | 600 (2670)           | 200 (890) | 9.8 (25)            | 4.9 (13)  |
| LE060★C5111N1 | 60          | 5w/12 (no fillers)      | 0.49             | 12.5 | 84             | 125   | 600 (2670)           | 200 (890) | 9.8 (25)            | 4.9 (13)  |
| LE072★C6111N1 | 72          | 6w/12 (no fillers)      | 0.53             | 13.4 | 97             | 144   | 600 (2670)           | 200 (890) | 10.6 (27)           | 5.3 (14)  |
| LE084★C8111N1 | 84          | 7w/12 (1 filler)        | 0.60             | 15.2 | 120            | 178   | 600 (2670)           | 200 (890) | 12.0 (31)           | 6.0 (16)  |
| LE096★C8111N1 | 96          | 8w/12 (no fillers)      | 0.60             | 15.2 | 121            | 180   | 600 (2670)           | 200 (890) | 12.0 (31)           | 6.0 (16)  |
| LE108★CA111N1 | 108         | 9w/12 (1 filler)        | 0.67             | 17.1 | 150            | 222   | 600 (2670)           | 200 (890) | 13.4 (34)           | 6.7 (17)  |
| LE120★CA111N1 | 120         | 10w/12 (no fillers)     | 0.67             | 17.1 | 151            | 224   | 600 (2670)           | 200 (890) | 13.4 (34)           | 6.7 (17)  |
| LE132★CC111N1 | 132         | 11w/12 (1 filler)       | 0.75             | 19.0 | 184            | 273   | 600 (2670)           | 200 (890) | 15.0 (38)           | 7.5 (19)  |
| LE144★CC111N1 | 144         | 12w/12 (no fillers)     | 0.75             | 19.0 | 185            | 275   | 600 (2670)           | 200 (890) | 15.0 (38)           | 7.5 (19)  |
| LE216★CI311N1 | 216         | 18w/12 (no fillers)     | 0.76             | 19.3 | 188            | 280   | 600 (2670)           | 200 (890) | 15.2 (39)           | 7.6 (20)  |
| LE288★CO311N1 | 288         | 24w/12 (no fillers)     | 0.87             | 22.0 | 245            | 365   | 600 (2670)           | 200 (890) | 17.4 (44)           | 8.7 (22)  |
| LE432★IO311N1 | 432         | 24w/18 (no fillers)     | 0.94             | 23.9 | 289            | 430   | 600 (2670)           | 200 (890) | 18.8 (48)           | 9.4 (24)  |
| LE576★OO311N1 | 576         | 24w/24 (no fillers)     | 1.08             | 27.3 | 372            | 554   | 600 (2670)           | 200 (890) | 21.4 (55)           | 10.7 (28) |

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.