

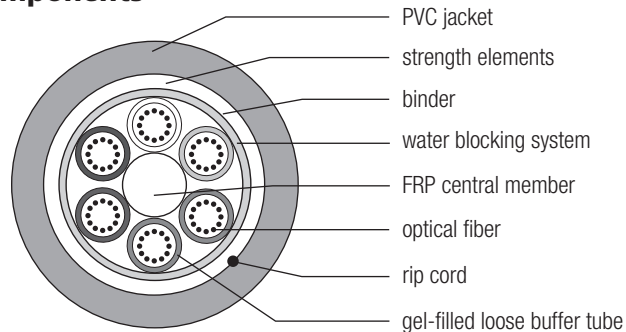
Riser Single-Jacket I/O Loose Tube (LV Series SJ)

Indoor/outdoor stranded loose tube combines the robust mechanical and environmental characteristics of an outside plant cable with the flexibility of an inside plant riser cable. By installing indoor/outdoor stranded loose tube, costly splice locations entering into a building are avoided, being routed directly from the outside plant to telecommunications closets, or main distribution frames (MDF) through the riser of a building and eliminating the "50-foot rule." Indoor/Outdoor Stranded Design loose tube cable is moisture and U.V. resistant, S-Z stranded for easy mid-span access, listed for OFNR use per UL standards, and can be used in both duct and lashed applications.

Applications

- Building Interconnections (Campus LAN)
- Trunking Lines Direct to Telecommunications Closet
- Local Loop
- Distance Learning
- Distribution
- Intra-building Backbones
- MSHA Approved for Mining Applications

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 - 144 | 22,900 | 7,000 | 22,900 | 7,000 |

* Longer lengths may be available.

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/1,000 FT (KG/KM) | LBS. (N) | | INCHES (CM) | |
| | | | | | SHORT TERM | LONG TERM | SHORT TERM | LONG TERM |
| LV006★C5101N1 | 6 | 1w/6 (4 fillers) | 0.51 (12.9) | 107 (159) | 600 (2700) | 200 (890) | 10.2 (26) | 5.1 (13) |
| LV012★C5101N1 | 12 | 1w/12 (4 fillers) | 0.51 (12.9) | 108 (160) | 600 (2700) | 200 (890) | 10.2 (26) | 5.1 (13) |
| LV018★C5101N1 | 18 | 1w/12, 1w/6 (3 fillers) | 0.51 (12.9) | 108 (161) | 600 (2700) | 200 (890) | 10.2 (26) | 5.1 (13) |
| LV024★C5101N1 | 24 | 2w/12 (3 fillers) | 0.51 (12.9) | 108 (161) | 600 (2700) | 200 (890) | 10.2 (26) | 5.1 (13) |
| LV030★C5101N1 | 30 | 2w/12, 1w/6 (2 fillers) | 0.51 (12.9) | 109 (162) | 600 (2700) | 200 (890) | 10.2 (26) | 5.1 (13) |
| LV036★C5101N1 | 36 | 3w/12 (2 fillers) | 0.51 (12.9) | 109 (162) | 600 (2700) | 200 (890) | 10.2 (26) | 5.1 (13) |
| LV048★C5101N1 | 48 | 4w/12 (1 filler) | 0.51 (12.9) | 110 (164) | 600 (2700) | 200 (890) | 10.2 (26) | 5.1 (13) |
| LV060★C5101N1 | 60 | 5w/12 (No fillers) | 0.51 (12.9) | 111 (165) | 600 (2700) | 200 (890) | 10.2 (26) | 5.1 (13) |
| LV072★C6101N1 | 72 | 6w/12 (No fillers) | 0.54 (13.7) | 128 (190) | 600 (2700) | 200 (890) | 10.8 (28) | 5.4 (14) |
| LV084★C8101N1 | 84 | 7w/12 (1 filler) | 0.61 (15.5) | 158 (236) | 600 (2700) | 200 (890) | 12.2 (31) | 6.1 (16) |
| LV096★C8101N1 | 96 | 8w/12 (No fillers) | 0.61 (15.5) | 159 (237) | 600 (2700) | 200 (890) | 12.2 (31) | 6.1 (16) |
| LV108★CA101N1 | 108 | 9w/12 (1 filler) | 0.69 (17.4) | 197 (294) | 600 (2700) | 200 (890) | 14.0 (35) | 7.0 (18) |
| LV120★CA101N1 | 120 | 10w/12 (No fillers) | 0.69 (17.4) | 198 (295) | 600 (2700) | 200 (890) | 14.0 (35) | 7.0 (18) |
| LV132★CC101N1 | 132 | 11w/12 (1 filler) | 0.76 (19.3) | 242 (360) | 600 (2700) | 200 (890) | 15.2 (39) | 7.6 (20) |
| LV144★CC101N1 | 144 | 12w/12 (No fillers) | 0.76 (19.3) | 243 (361) | 600 (2700) | 200 (890) | 15.2 (39) | 7.6 (20) |

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.