

Gel-Free Riser Single-Jacket Single-Armor Loose Tube (LV Series Gel-Free SASJ)

AFL LV-Series Gel-Free Indoor/Outdoor Single Jacket Single Armor fiber optic cables are designed for enterprise networking applications. The cable construction uses the latest in material technologies to offer a cable fully suited for OSP applications yet possess excellent flame retardant properties allowing for transitioning to inside-plant riser pathways. The corrugated steel armor layer adds additional crush and cut-through resistance making this product line suitable for direct-bury installations. 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.

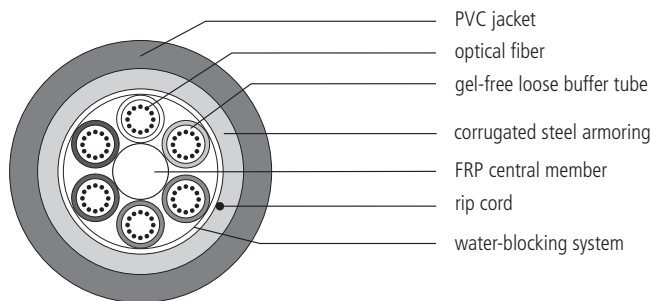
Features

- Gel-free buffer tubes reduce fiber prep termination time
- SZ-stranded cable core for easy mid-span access of fibers
- Improved crush and rodent resistance in direct-bury installations reduce the need to use inner-duct or metal conduits
- OFNR-listed saves labor and material by eliminating the need to add a transition point when entering riser-pathways within a building
- FR UV-stabilized outer jacket for long-term performance in OSP applications
- 6 to 288 fibers allow for specific cable choices for multiple applications
- Standards compliance:
 - ANSI/ICEA S-104-696
 - UL-1666
 - CSA OFN FT-4 22.2

Temperature Specifications

| TEMPERATURE RANGE | |
|-------------------|----------------|
| INSTALLATION | -20°C to +70°C |
| OPERATING | -40°C to +70°C |
| STORAGE | -40°C to +75°C |

Cable Components



Typical Lengths

| MAXIMUM LENGTHS* | | | | |
|------------------|-------------|--------|-----------|--------|
| FIBER COUNT | SINGLE-MODE | | MULTIMODE | |
| | FEET | METERS | FEET | METERS |
| 6 - 144 | 19,686 | 6,000 | 19,686 | 6,000 |

* 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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Mechanical Data

| AFL NO. | FIBER COUNT | NO. OF TUBES | NOMINAL DIAMETER | NOMINAL WEIGHT | MAXIMUM TENSILE LOAD | | MINIMUM BEND RADIUS | |
|----------------|-------------|--------------------|------------------|---------------------|----------------------|-----------|---------------------|-----------|
| | | | | | LBS (N) | | INCHES (CM) | |
| | | FIBERS/ TUBE | INCHES (MM) | LBS/1,000FT (KG/KM) | SHORT TERM | LONG TERM | SHORT TERM | LONG TERM |
| LV012★C5201S1D | 12 | 1/12 (4 fillers) | 0.50 (12.6) | 95 (141) | 600 (2670) | 180 (800) | 10.0 (25) | 5.0 (13) |
| LV024★C5201S1D | 24 | 2/12 (3 fillers) | 0.50 (12.6) | 95 (141) | 600 (2670) | 180 (800) | 10.0 (25) | 5.0 (13) |
| LV036★C5201S1D | 36 | 3/12 (2 fillers) | 0.50 (12.6) | 94 (140) | 600 (2670) | 180 (800) | 10.0 (25) | 5.0 (13) |
| LV048★C5201S1D | 48 | 4/12 (1 filler) | 0.50 (12.6) | 94 (140) | 600 (2670) | 180 (800) | 10.0 (25) | 5.0 (13) |
| LV060★C5201S1D | 60 | 5/12 (no fillers) | 0.50 (12.6) | 94 (139) | 600 (2670) | 180 (800) | 10.0 (25) | 5.0 (13) |
| LV072★C6201S1D | 72 | 6/12 (no fillers) | 0.53 (13.4) | 105 (156) | 600 (2670) | 180 (800) | 10.6 (27) | 5.3 (13) |
| LV096★C8201S1D | 96 | 8/12 (no fillers) | 0.59 (15.0) | 127 (189) | 600 (2670) | 180 (800) | 11.8 (30) | 5.9 (15) |
| LV144★CC201S1D | 144 | 12/12 (no fillers) | 0.73 (18.5) | 182 (271) | 600 (2670) | 180 (800) | 14.6 (37) | 7.3 (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.