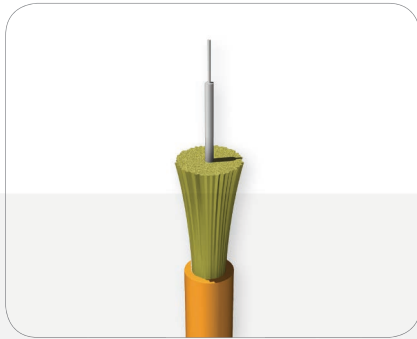




## Simplex Cable

Simplex fiber optic cables provide the strength and flexibility required for today's fiber interconnect applications. AFL offers the broadest selection of simplex cordage including Plenum, Riser and LSZH, available in all diameters. Our simplex cable is tested to meet Telcordia GR-326 when used in connectorized assemblies. AFL provides customized performance with regard to jacket stiffness and flexibility, diameter, print legend, jacket color and tight buffer strippability. The easy strip option allows removal of up to one meter of 900  $\mu\text{m}$  material without stripping the fiber's 250  $\mu\text{m}$  coating. Compliant with Directive 2002/95/EC (RoHS).

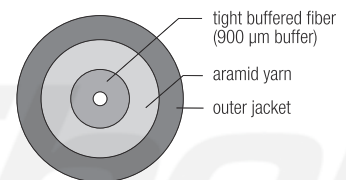
### Features

- Tested to meet or exceed EIA/TIA 568-133 and Telcordia GR-409-CORE
- Compliant to Directive 2002/95/EC (RoHS)
- LSZH meets the requirements of IEC 61034-1, 61034-2, 60332-1-1, 60332-1-2, 60754-1, 60754-2

### Applications

- Building Interconnections (Campus LAN)
- Trunking Lines Direct to Telecommunications Closet
- Fiber patch panels within communications closets
- Long Haul Networks
- Links between electronic equipment and fiber patch panels
- Connectorized patch cords for cross connect applications

### Cable Components



### Fiber Specifications

| CORE SIZE/<br>FIBER TYPE     | ISO/<br>IEC | MAXIMUM ATTENUATION<br>(DB/KM) |         |         | OVERFILL LAUNCH<br>MIN.<br>BANDWIDTH<br>(MHZ•KM) |         | EMB <sub>c</sub><br>(MHZ•KM) | GIGABIT ETHERNET<br>MIN. LINK DISTANCE<br>(METERS) |         | 10 GIGABIT<br>ETHERNET MIN. LINK<br>DISTANCE (METERS) |         |
|------------------------------|-------------|--------------------------------|---------|---------|--------------------------------------------------|---------|------------------------------|----------------------------------------------------|---------|-------------------------------------------------------|---------|
|                              |             | 850 NM                         | 1300 NM | 1550 NM | 850 NM                                           | 1300 NM |                              | 850 NM                                             | 1300 NM | 850 NM                                                | 1300 NM |
| (6) 62.5 Giga-Link™ 300      | OM1         | 3.5                            | 1.2     | N/A     | 200                                              | 600     | N/A                          | 300                                                | 550     | 32                                                    | —       |
| (5) 50 Giga-Link™ 600        | OM2         | 3.5                            | 1.5     | N/A     | 500                                              | 500     | N/A                          | 600                                                | 600     | 82                                                    | —       |
| (A) 50 Laser-Link 150        | OM2         | 3.0                            | 1.2     | N/A     | 700                                              | 500     | 950                          | 800                                                | 550     | 150                                                   | —       |
| (L) 50 Laser-Link 300        | OM3         | 3.0                            | 1.2     | N/A     | 1500                                             | 500     | 2000                         | 1000                                               | 550     | 300                                                   | —       |
| (C) 50 Laser-Link 550        | OM4         | 3.0                            | 1.2     | N/A     | 3500                                             | 550     | 4700                         | 1040                                               | 550     | 550                                                   | —       |
| (K) AFL G.657.A1 Single-mode | OS2         | N/A                            | 0.5     | 0.5     | N/A                                              | N/A     | N/A                          | N/A                                                | 5000    | N/A                                                   | 10,000  |
| (9) SM                       | OS2         | N/A                            | 0.5     | 0.5     | N/A                                              | N/A     | N/A                          | N/A                                                | 5,000   | N/A                                                   | 10,000  |

## Simplex Cable

### Mechanical Data

| AFL NO. |              | FIBER COUNT | NOMINAL DIAMETER | WEIGHT              |                     | TENSION      |           | BENDING RADIUS |           |
|---------|--------------|-------------|------------------|---------------------|---------------------|--------------|-----------|----------------|-----------|
|         |              |             | INCHES (MM)      | RISER               | PLENUM              | LBS (N)      |           | INCHES (CM)    |           |
|         |              |             |                  | LBS/1000 FT (KG/KM) | LBS/1000 FT (KG/KM) | INSTALLATION | LONG TERM | INSTALLATION   | LONG TERM |
| PLENUM  | SP001★301#01 | 1           | 0.11 (2.9)       | —                   | 6 (9)               | 22 (100)     | 7 (30)    | 2.0 (5.0)      | 1.2 (3.0) |
|         | SP001★241#01 | 1           | 0.09 (2.4)       | —                   | 5 (7)               | 22 (100)     | 7 (30)    | 2.0 (5.0)      | 1.2 (3.0) |
|         | SP001★201#01 | 1           | 0.08 (2.0)       | —                   | 3 (5)               | 22 (100)     | 7 (30)    | 2.0 (5.0)      | 1.2 (3.0) |
|         | SP001★161#01 | 1           | 0.06 (1.6)       | —                   | 2 (3)               | 22 (100)     | 7 (30)    | 2.0 (5.0)      | 1.2 (3.0) |
| RISER   | SA001★301#01 | 1           | 0.11 (2.9)       | 5 (7)               | —                   | 22 (100)     | 7 (30)    | 2.0 (5.0)      | 1.2 (3.0) |
|         | SR001★241#01 | 1           | 0.09 (2.4)       | 3 (5)               | —                   | 22 (100)     | 7 (30)    | 2.0 (5.0)      | 1.2 (3.0) |
|         | SR001★201#01 | 1           | 0.08 (2.0)       | 3 (4)               | —                   | 22 (100)     | 7 (30)    | 2.0 (5.0)      | 1.2 (3.0) |
|         | SR001★161#01 | 1           | 0.06 (1.6)       | 2 (2)               | —                   | 22 (100)     | 7 (30)    | 2.0 (5.0)      | 1.2 (3.0) |
| LSZH    | SE001★301#0E | 1           | 0.11 (2.9)       | 5 (7)               | —                   | 22 (100)     | 7 (30)    | 2.0 (5.0)      | 1.2 (3.0) |
|         | SE001★241#0E | 1           | 0.09 (2.4)       | 3 (5)               | —                   | 22 (100)     | 7 (30)    | 2.0 (5.0)      | 1.2 (3.0) |
|         | SE001★201#0E | 1           | 0.08 (2.0)       | 3 (4)               | —                   | 22 (100)     | 7 (30)    | 2.0 (5.0)      | 1.2 (3.0) |

★ Fiber Types – Replace asterisk (★) in AFL number with number in the Fiber Specifications table on previous page.

# Outer Jacket Color – Replace hashtag (#) in AFL number with number in the Cable Jacket Color table below.

### Cable Jacket Color Options

|            |                             |
|------------|-----------------------------|
| 1 - Blue   | 8 - Black                   |
| 2 - Orange | 9 - Yellow                  |
| 3 - Green  | A - Violet                  |
| 4 - Brown  | B - Rose                    |
| 5 - Slate  | C - Aqua                    |
| 6 - White  | K - Erika Violet (RAL 4003) |
| 7 - Red    |                             |

### Temperature Specifications

| TEMPERATURE RANGE |                |                |                |
|-------------------|----------------|----------------|----------------|
|                   | PLENUM         | RISER          | LSZH           |
| INSTALLATION      | 0°C to +70°C   | -20°C to +70°C | 0°C to +70°C   |
| OPERATING         | 0°C to +70°C   | -20°C to +70°C | 0°C to +70°C   |
| STORAGE           | -40°C to +75°C | -40°C to +75°C | -40°C to +75°C |

### Maximum Cable Length - Reel Size

| ITEM                            | FIBER BOX*  | REEL Z         | REEL A         | REEL B         |
|---------------------------------|-------------|----------------|----------------|----------------|
| Reel/Box Height (inches)        | 15.13       | 14.0           | 16.0           | 24.0           |
| Reel/Box Outside Width (inches) | 13.0        | 12.0           | 15.0           | 17.0           |
| Drum Diameter (inches)          | 8.0         | 8.0            | 8.0            | 12.0           |
| Reel Weight (lbs)               | 6.0         | 7.0            | 10.0           | 23.0           |
| CAPACITY: METERS (FEET)         |             |                |                |                |
| Simplex 1.6                     | —           | 5,000 (16,404) | 5,000 (16,404) | —              |
| Simplex 2.0                     | —           | 3,500 (11,483) | 5,000 (16,404) | —              |
| Simplex 2.4                     | —           | —              | 4,000 (13,123) | 5,000 (16,404) |
| Simplex 3.0                     | 914 (3,000) | —              | 2,500 (8,202)  | 5,000 (16,404) |

\* Add suffix "—XMFBOX" to cable AFL number to specify "Fiber-In-A-Box" solution. "X" indicates length of cable in thousands of feet. Only available in standard lengths as indicated in chart above.

**EXAMPLE:** SP0019301001—3MFB0X

Would be the resulting AFL number for 3,000 feet of SP001★301001 cable with 9/125 µm single-mode fiber and the Fiber-In-A-Box solution. Refer to Fiber-In-A-Box data sheet.