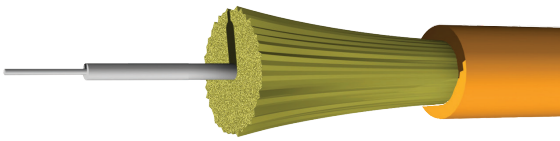
# Simplex Cable

Simplex fiber optic cables provide the strength and flexibility for fiber interconnect applications. AFL offers a broad selection of simplex cordage including Plenum, Riser and LSZH, available in multiple diameters. Our simplex cable is tested to meet Telcordia GR-326 when used in connectorized assemblies. AFL provides customized performance for 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 µm material without stripping the fiber's 250 µm coating.



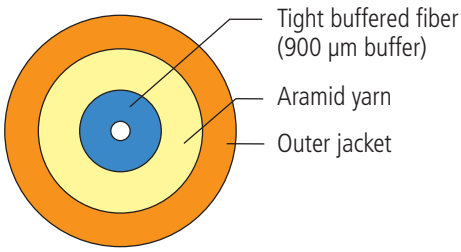
## Features

- 1.6 mm to 2.9 mm outside diameter available
- Easy strip option available
- Custom diameters, colors, and print legends

## Applications

- 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/Fiber Type | ISO/ IEC | Maximum Attenuation (dB/km) | | | Overfill Launch Min. Bandwidth (MHz•km) | | EMB$_C$ (MHz•km) | Gigabit Ethernet max. Link Distance (meters) | | 10 Gigabit Ethernet Max. Link 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 | — |
| (L) 50 Laser-Link 300 | OM3 | 3.0 | 1.2 | N/A | 1,500 | 500 | 2,000 | 1,000 | 550 | 300 | — |
| (C) 50 Laser-Link 550 | OM4 | 3.0 | 1.2 | N/A | 3,500 | 500 | 4,700 | 1,040 | 550 | 550 | — |
| (W) AFL Wideband Multimode | OM5 | 3.0 | 1.2 | N/A | 3,500 | 500 | 4,700 | 1,040 | 550 | 550 | — |
| (9) Single-mode (ITU G.652.D/G.657.A1) | OS2 | N/A | 0.5 | 0.5 | N/A | N/A | N/A | N/A | 5,000 | N/A | 10,000 |

*continued*

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## Mechanical Data

| AFL No. | | FIBER COUNT | NOMINAL DIAMETER | WEIGHT | | TENSION | | BENDING RADIUS | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Riser | Plenum | lbs (N) | | inches (cm) | |
| | | | inches (mm) | 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✶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✶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✶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 |
| 2 - Orange |
| 9 - Yellow |
| C - Aqua |
| K - Erika Violet (RAL 4003) |

## Qualifications

| Governing Body | Standard Code |
|---|---|
| IEC | 61034-1 |
| IEC | 61034-2 |
| IEC | 60332-1-1 |
| IEC | 60332-1-2 |
| IEC | 60754-1 |
| IEC | 60754-2 |
| Telcordia | GR-409-CORE |
| RoHS | Compliant to 2002/95/EC |
| EIA/TIA | 568-133 |

## Temperature Specifications

| | Plenum | Riser | LSZH |
|---|---|---|---|
| **Operation** | 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 |
| **Installation** | 0°C to +70°C | -20°C to +70°C | 0°C to +70°C |

## Contact AFL for more details.

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