

## 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).

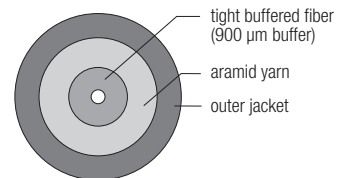
### Features

- 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/ FIBER TYPE	ISO/ IEC	MAXIMUM ATTENUATION (DB/KM)			OVERFILL LAUNCH MIN. BANDWIDTH (MHZ•KM)		EMB <sub>c</sub> (MHZ•KM)	GIGABIT ETHERNET MIN. LINK DISTANCE (METERS)		10 GIGABIT ETHERNET MIN. 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	—
(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

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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
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
<b>CAPACITY: METERS (FEET)</b>				
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:** SP0019301001-3MFBOX

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.