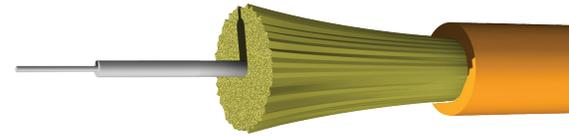# Simplex Cable

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.
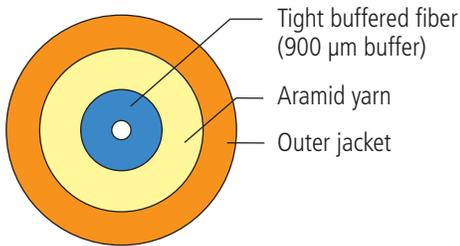
Features

- 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

Tight buffered fiber (900 µm buffer)

Aramid yarn

Outer jacket

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	—
(5) 50 Giga-Link™ 600	OM2	3.5	1.5	N/A	500	500	N/A	600	600	82	—
(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

AFLglobal.com
1 (800) 866-7385

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

Recommended Products

Description	AFL No.
Xpress Fiber Management® (XFM®) 1RU Patch Panel	Refer to spec sheet for AFL No.

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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