

# Simplex Cable, Plenum

[www.TheLightConnection.com](http://www.TheLightConnection.com)

## Features and Benefits

- 3mm, 2mm, 1.8mm, 1.6mm and 1.2mm OD sizes to meet all patch cord applications
- Available in custom colors

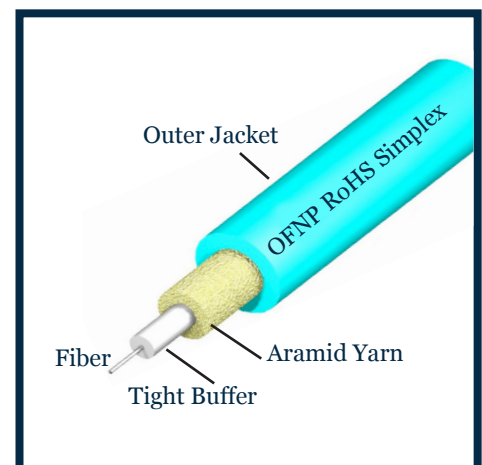
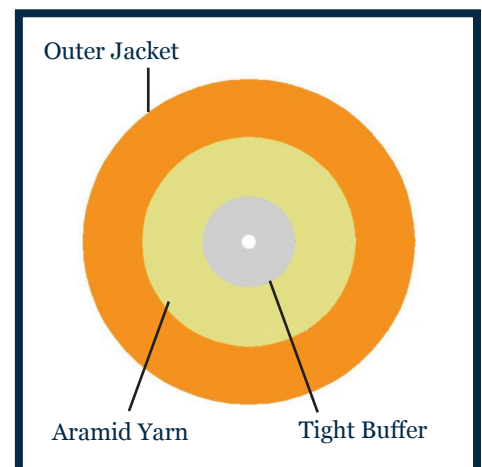
## Description

The Light Connection, Inc. Simplex Cable is composed of a tight buffered optical fiber, aramid yarn, and a PVC outer jacket. All component materials meet the EU RoHS and REACH Directive standards.

TLC Simplex Cable is available in 12 TIA standard colors or special order colors. UL Listed OFNP cables are available, and unrated cables may be supplied to accommodate special needs. Standard surface print denotes construction, NEC rating, and fiber type, and includes footage markers. Custom print may also be accommodated.

**Application**  
Plenum

**Flame Rating**  
NFPA 262



# SPECIFICATIONS

## Temperature Range

Storage Temperature	-40 C to +70 C
Operating Temperature	0 C to +70 C

## Cable Characteristics

Fiber Count	1
Outer Jacket Material	Flame Retardant PVC
Outer Jacket Color	Available in 12 TIA/EIA color standard
Strength Member	Aramid Yarn
Tight Buffer Material	Flame Retardant PVC
Tight Buffer Color	White

## Physical Characteristics

### Value

Nominal Outer Diameter (mm)	2.95 / 1.95 / 1.80 / 1.60 / 1.20
Weight (lbs/km)	20 / 14 / 10 / 7 / 5
Minimum Bend Radius (mm) (Bend Insensitive SM 1 turn)	10
Minimum Bend Radius (mm) (Bend Insensitive MM)	7.5

## Optical Characteristics

Items	Single Mode	OM1	OM2	OM3	OM4 (OM4+)	OM5 (WB MMF)
Core Size [ $\mu\text{m}$ ]	9	62.5	50	50	50	50
Wavelength [nm]	1310/ 1550	850/ 1300	850/1300	850/ 1300	850/ 1300	850/ 1300
Max. Attenuation[dB/km]	0.5/ 0.4	3.5/ 1.5	3.5/1.5	3.0/ 1.0	3.0/ 1.0	3.0/ 1.0
Link Length[m]	10,000/5,000 (1/10Gb/s@1550nm)	300 (1Gb/s@850nm)	150 (10Gb/s@850nm)	300 (10Gb/s@850nm)	550(600) (10Gb/s@850nm)	550 (10Gb/s@850nm)
Bandwidth (EMB High Performance)[MHz.km]	–	220 @850	750@850	2,000 @850	4,700 @850	4,700@850

## Part Numbers

Size	Single Mode	OM1	OM2	OM3-OM4	OM5
2.95 mm (900 $\mu\text{m}$ buffer)	S09SX01**NPY	M62SX01**NPO	M50SX01**NPO	M50SX01**NPA	M50SX01**NPLG
1.95 mm (900 $\mu\text{m}$ buffer)	S09SX01**NPY20	M62SX01**NPO20	M50SX01**NPO20	M50SX01**NPA20	M50SX01**NPLG20
1.80 mm (800 $\mu\text{m}$ buffer)	S09SX01**NPY18	M62SX01**NPO18	M50SX01**NPO18	M50SX01**NPA18	M50SX01**NPLG18
1.60 mm (650 $\mu\text{m}$ buffer)	S09SX01**NPY16	M62SX01**NPO16	M50SX01**NPO16	M50SX01**NPA16	M50SX01**NPLG16
1.20 mm (bare fiber)	S09SX01**NPY12	M62SX01**NPO12	M50SX01**NPO12	M50SX01**NPA12	M50SX01**NPLG12

### Fiber Type (9/125)

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SMF-28 Ultra	CZ
ClearCurve LBL	C7
ClearCurve ZBL	CC

### Fiber Type (50/125)

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ClearCurve OM2	C2
Clear Curve OM3	CG
ClearCurve OM4	C4
ClearCurve OM5	C5

### Fiber Type (62.5/125)

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InfiniCor 300	C3
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