

Duplex Cable, Plenum

www.TheLightConnection.com

Features and Benefits

- 3mm, 2mm, 1.8mm, 1.6mm and 1.2mm OD sizes to meet all patch cord applications (all cable sizes are tight buffered fiber, except the 1.2mm cable is bare colored fiber).
- Available in custom colors

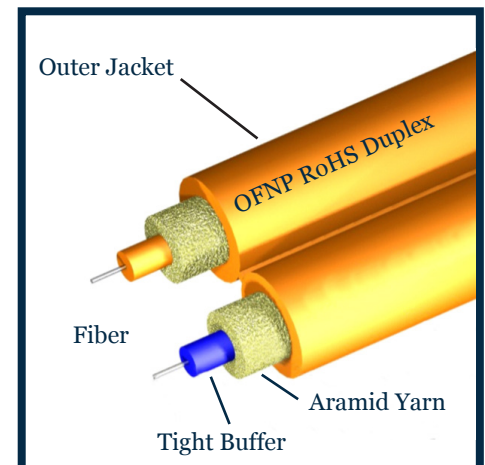
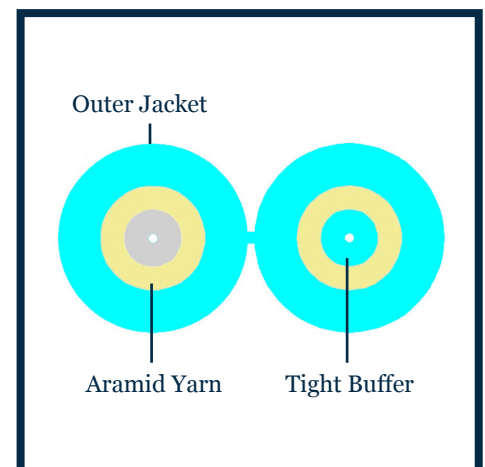
Description

The Light Connection, Inc Duplex 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 Duplex 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	2
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 & Aqua for (MM 50/125 fiber), Blue & Orange for (SM 9/125 and MM 62.5/125 fiber) (Blue and Orange bare colored glass for 1.2mm cable)

Physical Characteristics	
Nominal Outer Diameter (mm)	2.95 x 6.05 / 1.95 x 4.05 / 1.80 x 3.75 / 1.60 x 3.35 / 1.20 x 2.45
Weight (lbs/km)	40 / 28 / 20 / 14 / 11
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 [μm]	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
2.95mm (900μm buffer)	S09DX02**NPY	M62DX02**NPO	M50DX02**NPO	M50DX02**NPA	M50DX02**NPLG
1.95mm (900μm buffer)	S09DX02**NPY20	M62DX02**NPO20	M50DX02**NPO20	M50DX02**NPA20	M50DX02**NPLG20
1.80mm (800μm buffer)	S09DX02**NPY18	M62DX02**NPO18	M50DX02**NPO18	M50DX02**NPA18	M50DX02**NPLG18
1.60mm (650μm buffer)	S09DX02**NPY16	M62DX02**NPO16	M50DX02**NPO16	M50DX02**NPA16	M50DX02**NPLG16
1.20mm (bare fiber)	S09DX02**NPY16	M62DX02**NPO12	M50DX02**NPO12	M50DX02**NPA12	M50DX02**NPLG12

Fiber Type (9/125)	**	Fiber Type (50/125)	**	Fiber Type (62.5/125)	**
SMF-28 Ultra	CZ	ClearCurve OM2	C2	InfiniCor 300	C3
ClearCurve LBL	C7	Clear Curve OM3	CG		
ClearCurve ZBL	CC	ClearCurve OM4	C4		
		ClearCurve OM5	C5		



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