

# 2-96 Fiber Micro Distribution, Plenum

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

## Features and Benefits

- 250µm colored bare fibers
- Small O.D. for tight spaces
- Available in all fiber types
- Meets the application requirement of National Electric Code (NEC) Article 770

## Description

The Light Connection, Inc. 2-96 fiber Micro Distribution Cable is composed of single tube or two to eight buffer tubes, a central member (if applicable), aramid yarn, an aramid ripcord, and a PVC outer jacket. Each buffer tube consists of 12 colored glass fibers surrounded by aramid yarn with a PVC jacket 2.95mm in diameter. All component materials meet the EU RoHS and REACH Directive standards. Buffer tubes may be color-coded or sequentially numbered.

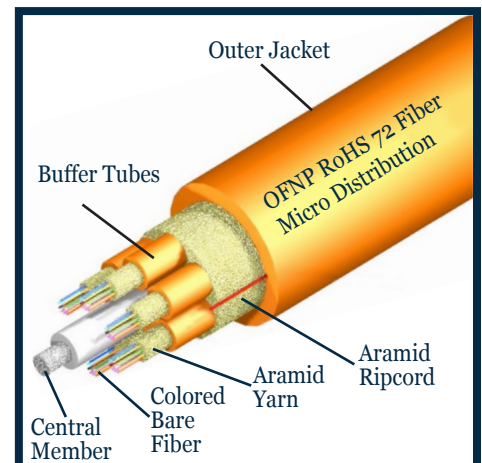
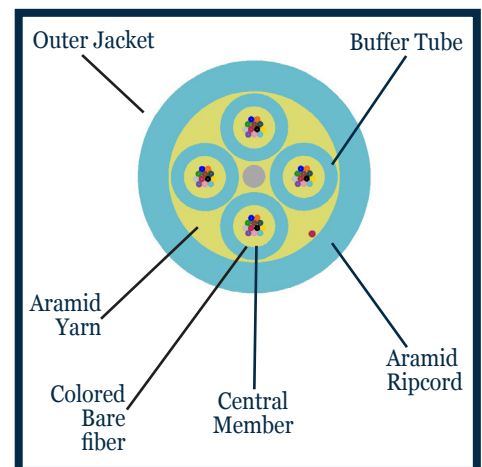
TLC Micro Distribution Cable is available in 12 TIA standard colors or special-order colors. UL Listed OFNP cables are available, unrated cables may be supplied to accommodate special needs. Standard surface print denotes construction, NEC rating and fiber type, and includes footage markers. Custom print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

## Application

Plenum  
Data Centers

## Flame Rating

NFPA 262



# SPECIFICATIONS

<b>Temperature Range</b>	Indoor
Storage Temperature	-40 C to +70 C
Operating Temperature	0 C to +70 C

<b>Cable Characteristics</b>	
Fiber Count	2-12, 24, 36, 48, 72, 96
Outer Jacket Material	Flame Retardant PVC
Buffer tubes	Flame Retardant PVC
Strength Member	Aramid Yarn
Central Strength Member	Fiber Reinforced Plastic Rod
Coating on Central Strength Member	Flame Retardant PVC

<b>Physical Characteristics</b>	Value (2-12, 24, 36, 48, 72, 96 fiber count)
Nominal Outer Diameter (mm)	2.95/ 8.2/ 8.25/ 8.6/ 10.5/ 13.0
Weight (lbs/ km)	23/ 105/ 130/ 170/ 252/ 334
Minimum Bend Radius, Installation (cm)	4.45/ 12.3/ 12.35/ 12.9/ 15.75/ 19.5
Minimum Bend Radius, Operation (cm)	2.95/ 8.2/ 8.25/ 8.6/ 10.5/ 13.0

<b>Optical Characteristics</b>						
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

<b>Part Numbers</b>					
Fiber Count	Single Mode	OM1	OM2	OM3-OM4	OM5
2-12	S09MD#***NPY	M62MD#***NPO	M50MD#***NPO	M50MD#***NPA	M50MD#***NPLG
24	S09MD24**NPY-TW	M62MD24**NPO-TW	M50MD24**NPO-TW	M50MD24**NPA-TW	M50MD24**NPLG-TW
24	S09MD24**NPY2T-Y	M62MD24**NPO2T-O	M50MD24**NPO2T-O	M50MD24**NPA2T-A	M50MD24**NPLG2T-LG
36	S09MD36**NPY3T-Y	M62MD36**NPO3T-O	M50MD36**NPO3T-O	M50MD36**NPA3T-A	M50MD36**NPLG3T-LG
48	S09MD48**NPY4T-Y	M62MD48**NPO4T-O	M50MD48**NPO4T-O	M50MD48**NPA4T-A	M50MD48**NPLG4T-LG
72	S09MD72**NPY6T-Y	M62MD72**NPO6T-O	M50MD72**NPO6T-O	M50MD72**NPA6T-A	M50MD72**NPLG6T-LG
96	S09MD96**NPY-Y	M62MD96**NPO-O	M50MD96**NPO-O	M50MD96**NPA-A	M50MD96**NPLG-LG

<b>Fiber Type (9/125)</b>	<b>**</b>	<b>Fiber Type (50/125)</b>	<b>**</b>	<b>Fiber Type (62.5/125)</b>	<b>**</b>
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		



132 Base Road  
 Oriskany, NY, 13424  
 Phone: 315-736-7384  
 Fax: 315-736-1927  
 Toll free: 1-888-571-7111  
 sales@thelightconnection.com  
 www.thelightconnection.com

Specifications are subject to change without notice.