

Plenum LC Trunk Cable Assemblies

specifications

Plenum LC Trunk Cable Assemblies shall allow for rapid deployment of high-density permanent links in a single assembly for data center applications requiring quick infrastructure deployment, such as main, horizontal, and zone distribution areas. These trunk cable assemblies shall optimize cable routing requirements to ensure efficient use of pathway space and significantly reduce installation time and cost. QuickNet™ LC Trunk Cable Assemblies are built with modular MPO connectivity and provide compatibility, flexibility and system performance in all permanent link applications. All LC trunk cable assemblies are factory terminated and tested to deliver verified optical performance and reliability for improved network integrity at speeds of 10/25/40/50/100G and beyond.



applications

Allows system designers to tailor configuration, reach and breakout construction to application requirements; to minimize waste, optimize cable management, speed deployment, improve flexibility and manageability for lower installation costs.

constructions

Cable type:	Indoor Trunk	
Cable jacket rating:	Plenum (OFNP)	
Fiber types:	Singlemode:	OS2 9/125µm
	Multimode:	OM3 50/125µm OM4 50/125µm
Connector types end 'A':	12-fiber – MPO Female or Male, 12-fiber – PanMPO™ Female or Male LC Duplex	
Connector types end 'B':	LC Duplex, Pigtail	
Fiber count:	12, 24, 48	
Jacket color:	OS2	Yellow
	OM3	Aqua
	OM4	Aqua

optical properties

Maximum cable attenuation:	Singlemode:	0.4dB/km at 1310nm 0.3dB/km at 1550nm
	Multimode:	3.0dB/km at 850nm 1.0dB/km at 1300nm
Maximum connector insertion loss:	Standard Singlemode MPO:	0.75dB
	Optimized Multimode MPO:	0.35dB
	Ultra Multimode MPO:	0.25dB
	Standard Singlemode LC:	0.35dB
	Optimized Multimode LC:	0.15dB
	Ultra Multimode LC:	0.10dB
Maximum connector return loss:	Singlemode:	MPO, LC 55dB
	Multimode:	MPO 30dB LC 26dB

physical properties

Cable outside diameter (OD):	12-fiber: 4.5mm 24-fiber: 5.4mm 48-fiber: 6.1mm
Cable Construction:	12-fiber – 250µm Distribution Cable 24-fiber – 250µm Distribution Cable 48-fiber – 250µm Distribution Cable
Minimum bend radius:	Under load: 20 x Cable OD Static: 10 x Cable OD
Cable tensile strength:	12-fiber, 24-fiber, and 48-fiber 440N (100 lbs.)
Cable compressive load:	100 N/mm
Connector durability:	500 mating cycles*
Breakout outside diameter:	3.0mm
Breakout length:	1m

*With proper cleaning and inspecting.

environmental properties

Operating temperature:	-20°C to + 70°C (-4°F to 158°F)
Storage and shipping temperature:	-40°C to +70°C (-40°F to 158°F)
Installation temperature:	-10°C to + 60°C (14°F to 140°F)

standards

Meets or exceeds:	ISO/IEC 11801, TIA/EIA-568-C.3, TIA-604-5 (FOCIS-5), TIC/EIA-568-C.1, GR-409-CORE, ICEA S-83-596 RoHS Compliant
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Plenum LC Trunk Cable Assemblies

part number configurator

CHARACTER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
EXAMPLE	F	Y	X	T	P	L	L	N	0	0	5	F	0	3	0

1 – Fiber

F = Fiber

2 – Cable Type

Y = Indoor small diameter trunk cable

3 – Fiber Type

9 = OS2 Singlemode 9/125µm
X = OM3 50/125µm
Z = OM4 50/125µm

4 – Fiber Count

T = 12-fibers
U = 24-fibers
W = 48-fibers

5 – Jacket Type

P = Plenum

6 – Connector Type (End A)

5 = 12-fiber MPO Female
6 = 12-fiber MPO Male
7 = 12-fiber PanMPO™ Female
8 = 12-fiber PanMPO™ Male
L = LC Duplex

7 – Connector Type (End B)

L = LC Duplex
U = Pigtail

8 – Construction/Performance

S = Standard Polarity, Standard IL (Singlemode only)
O = Standard Polarity, Optimized IL
N = Standard Polarity, Ultra IL

9 – 11 – Serial (see below)

12 – Unit of Measure

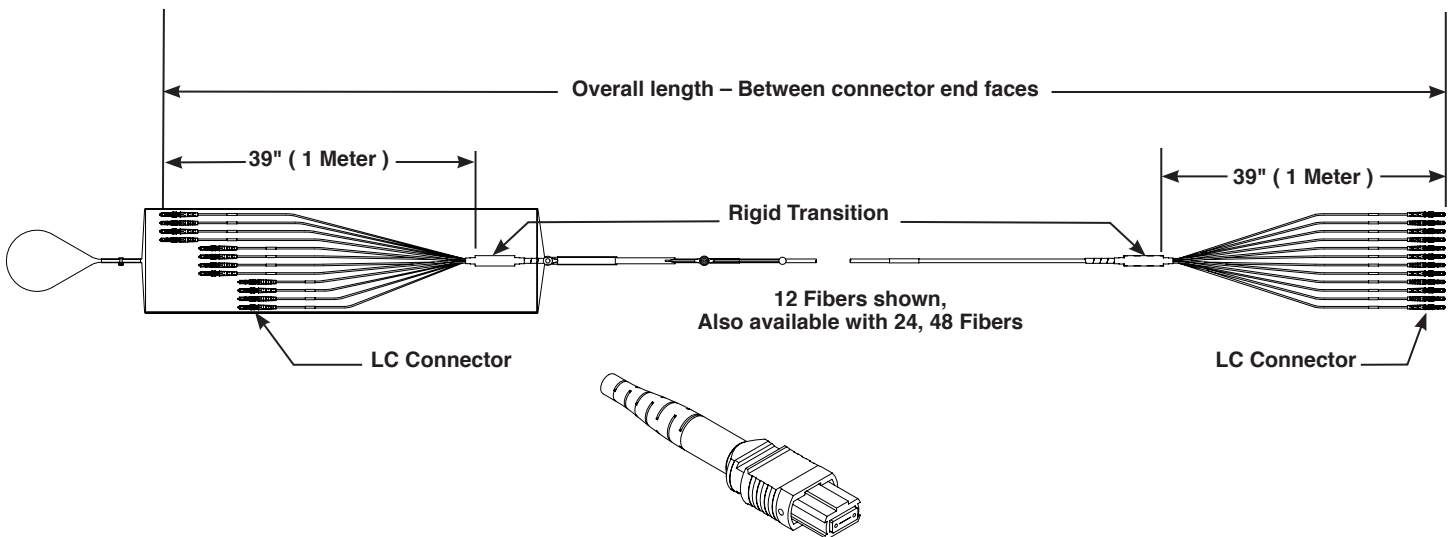
F = Feet
M = Meters

13, 14, 15 – Cable Assembly Length

005 – 999 Meters

Serial	Transition	Pulling Eye
005	Standard	Yes
006	Standard	No
007	Standard to pigtail	Yes

small diameter trunk cable assembly detail



Dimensions are in inches. (Dimensions in parenthesis are metric).

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