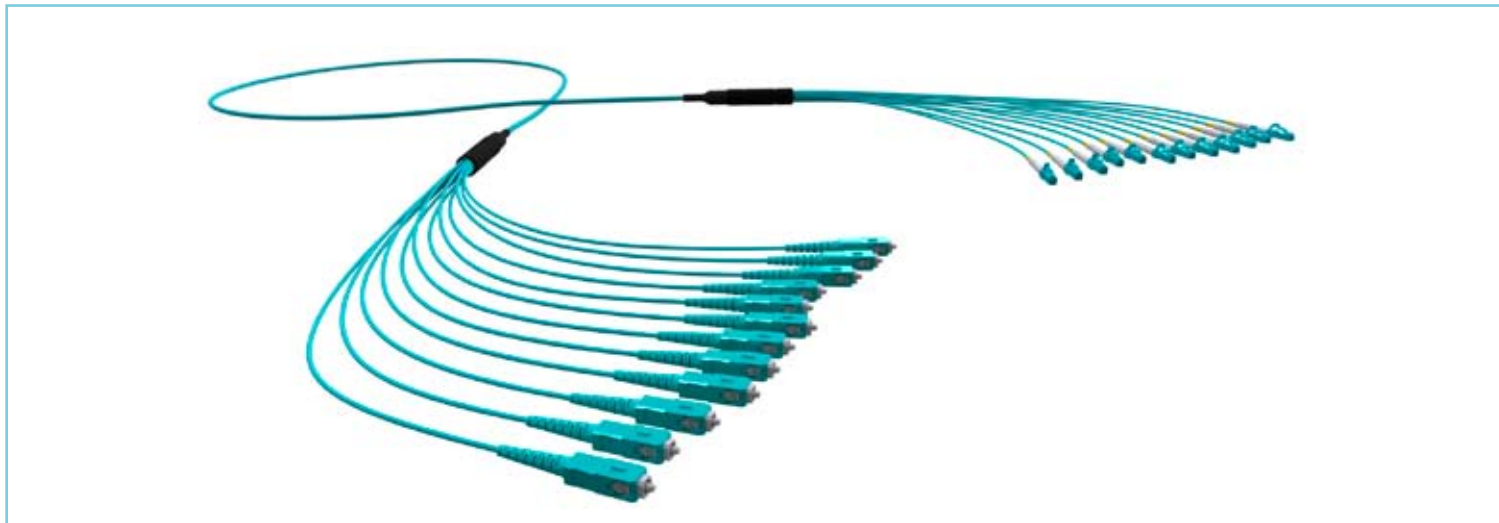


Multifiber FirstLight Micro Cable Assemblies

V.3.4



Description

The FirstLight Micro Cable assembly features a small, compact size of Micro Cable providing flexible though ruggedized product with the improved optical performance of Micro Cable structure. The standard 2mm patch lead style tails are ruggedized to secure the optical fiber in the non-protected environments outside the patch panel or Optical

Distribution Frames (ODFs). The network topology can be reduced and simplified by direct connection to active equipment bypassing wall boxes, ODFs of fiber patch panels, the end result is a greatly improved power budget and reduced fiber management space.

Features

- ▶ Available in OM1, OM2, OM3, OM4 and G.652D (OS1/OS2), G.657A1 fibre types
- ▶ 12 and 24 cores standard (high core counts up to 144 fibers available)
- ▶ 2mm ruggedised tails (900µm tails available)
- ▶ LSZH, OFNP, OFNR cable jacket
- ▶ Available with all standard connectivity
- ▶ Factory terminated and tested

Benefits

- ▶ Compact small dimension flexible Micro Cable applied
- ▶ Improved optical performance of loose tube structure
- ▶ Zero-U space application - direct connection to active equipment
- ▶ Secure FirstLight Prime breakout module
- ▶ Reduced weight and carriage costs

Application

- ▶ Internal Short Optical Links
- ▶ Front Panel/Equipment Connections
- ▶ Data Centre Infrastructure
- ▶ Storage Area Network (SAN)

Standards Compliance

- ▶ TIA/EIA-568-C.3 and ISO/IEC 11801
- ▶ ISO/IEC 60793 and ISO/IEC 60794
- ▶ ISO/IEC 61753, IEC 61754 and IEC 61755
- ▶ ISO/IEC 60332-1, IEC 61034-1/2 and IEC 61754-1/2
- ▶ Compliant to Directive 2002/95/EC (RoHS) and REACH SvHC

Connector Performance

CONNECTOR MATING	IL Average Standard	IL MAX Standard	IL Average Premium	IL MAX Premium	RETURN LOSS
MM	0.15 dB	0.30 dB	0.08 dB	0.15 dB	NA
SM	0.18dB	0.30dB	0.12dB	0.15dB	>55/65dB (UPC/APC)

Cable Performance

FibreType (ISO/IEC 11801)	OS1/OS2	OM1	OM2	OM3	OM4
Attenuation Coefficient [dB/km]	≤ 0.38 Max (1310nm)	≤ 3.5 Max (850nm)	≤ 3.5 Max (850nm)	≤ 3.5 Max (850nm)	≤ 3.5 Max (850nm)
	≤ 0.25 Max (1550nm)	≤ 1.5 Max (1300nm)	≤ 1.5 Max (1300nm)	≤ 1.5 Max (1300nm)	≤ 1.5 Max (1300nm)
Minimum Bandwidth: Overfilled Launch [Mhz-km]	≤ 0.34 Typ (1310nm)	≤ 2.9 Typ (850nm)	≤ 2.7 Typ (850nm)	≤ 2.7 Typ (850nm)	≤ 2.7 Typ (850nm)
	≤ 0.19 typ (1550nm)	≤ 1.2 typ (1300nm)	≤ 0.9 typ (1300nm)	≤ 0.9 typ (1300nm)	≤ 0.9 typ (1300nm)
Minimum Bandwidth: Laser Effective Modal Bandwidth [Mhz-km]	NA	≥ 200 (850nm)	≥ 500 (850nm)	≥ 1500 (850nm)	≥ 3500 (850nm)
	NA	≥ 500 (1300nm)	≥ 500 (1300nm)	≥ 500 (1300nm)	≥ 500 (1300nm)
Minimum Bandwidth: Laser Effective Modal Bandwidth [Mhz-km]	NA	NA	NA	≥ 2000 (850nm)	≥ 4700 (850nm)
	NA	NA	NA	≥ 2000 (850nm)	≥ 4700 (850nm)



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Technical Specification

Element	Characteristic
Fibre	G.652D(OS1/OS2), G.657A1, OM1, OM2, OM3, OM4 (ISO/IEC 60793)
Cable	Microcable- 12, 24 cores (ISO/IEC 60794) MAX OD: Max OD 12 cores 4.5 ± 0.3mm / Max OD 24 cores Flat 4.5 x 7.4 ± 0.3mm Jacket material: LSZH, OFNP, OFNR Jacket colour: OS1/OS2 (Yellow), OM1/OM2 (Orange), OM3 (Aqua), OM4 (Aqua/Erika Violet)
Connectors	LC, (IEC 61754-20), SC (IEC 61754-14), FC (IEC 61754-13), ST (IEC 61754-2)
Packaging	Length ≤100mtr: HD Bag Length >100mtr: Drum
Operating Temperature	-20 ~ +60°C
Storage Temperature	-40 ~ +70°C

Typical tail length 1000mm

No.	Description	Qty.
1	12 Fibre Micro Cable	1
2	Ruggedised Breakout Module	2
3	2mm Furcation Tubing	24
4	Connector Assembly End 1	12
5	Connector Assembly End 2	12
6	Channel Identification Marker (C-Clip)	30
7	Serial Number Label (Wrap Around)	1

Length Tolerances:
 -0/+100mm (Length<0.5m)
 -0/+150mm (0.5m≤Length<5m)
 -0/+200mm (5m≤Length<20m)
 ±1% (Length≥20m)

Typical tail length 1000mm

No.	Description	Qty.
1	24 Fibre Flat Micro Cable	1
2	Ruggedised Breakout Module	4
3	2mm Furcation Tubing	48
4	Connector Assembly End 1	24
5	Connector Assembly End 2	24
6	Channel Identification Marker (C-Clip)	78
7	Sub Unit Identification Marker (C-Clip)	4
8	Serial Number Label (Wrap Around)	1
9	Spill Retainer	2

Length Tolerances:
 -0/+100mm (Length<0.5m)
 -0/+150mm (0.5m≤Length<5m)
 -0/+200mm (5m≤Length<20m)
 ±1% (Length≥20m)

Part Number Generator

PRE	Fibre Count	Connector END A	Connector END B*	Fibre Type	Cable Construction	Cable length (Mtr)	Jacket Type
	12	LC LC FC FC	LC LC FC FC	OS1/OS2 09	Micro Cable MC	XX	LSZH -
	24						PL OFNP
	48	LC/APC LCA FC/APC FCA	LC/APC LCA FC/APC FCA	OM1 62			RI OFNR
	72						
		SC SC E2000 E2	SC SC E2000 E2	OM2 50			
		SC/APC SCA E2000/APC E2A	SC/APC SCA E2000/APC E2A	OM3 OM3			
		ST ST	ST ST	OM4 OM4			
				G.657/A1 A1			

* If end B differ from end A

Example Part Number
PRE24LCOM3MC20

This part number refers to 24 cores OM3 LC to LC Micro multifiber cable assembly, 20 metres, LSZH Jacket in aqua.



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