

Multifibre FirstLight Micro Cable Assemblies

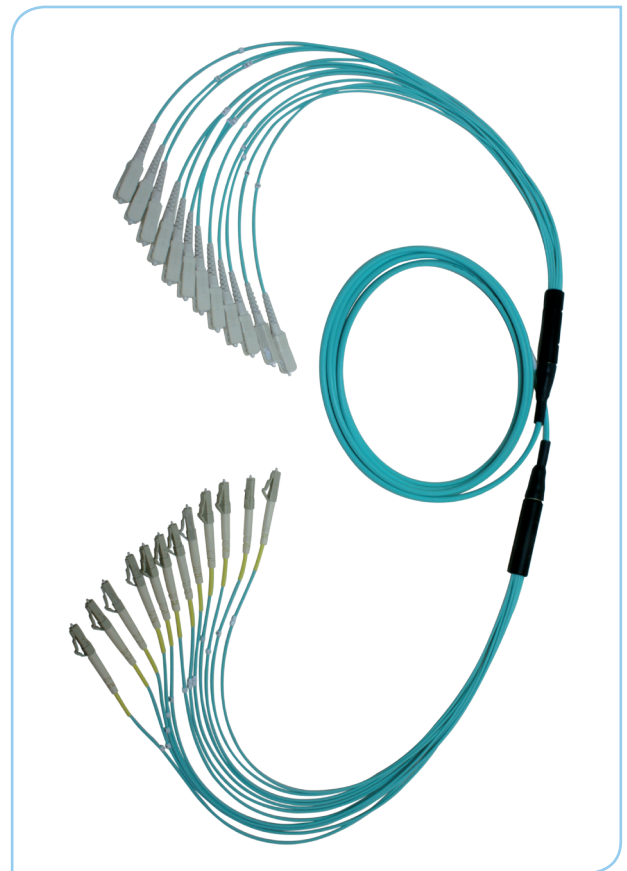
The FirstLight Micro cable assembly perfectly complements traditional full breakout assembly offering smaller, more flexible and compact product providing the same time improved optical performance of micro cable structure. The 2mm patch lead style tails are ruggedised, to protect the optical fibre in the demanding environments outside the patch panel or ODF. The network topology can be reduced and simplified by direct connection; by passing wall boxes, ODFs or fibre patch panels, the end result is greatly improved fibre management.

Features

- > Available in OM1, OM2, OM3, OM4 and OS1/OS2 fibre types
- > 12 and 24 cores (other core counts available upon special request)
- > 2mm ruggedised tails
- > LSZH 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
- > Reduced weight and carriage costs



Application

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

Standards Compliance

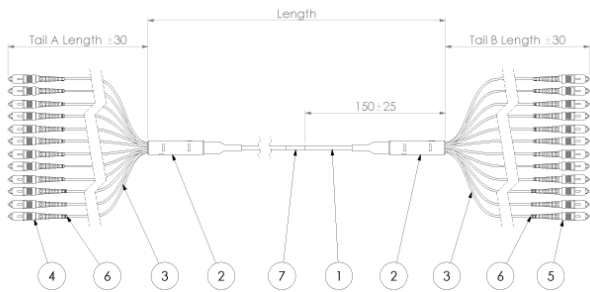
- > TIA/EIA-568-C.3 and ISO/IEC 11801
- > ISO/IEC 60793 and ISO/IEC 60794
- > ISO/IEC 61753, IEC 61754 and IEC 61755
- > ISO/IEC 60332-1, IEC 61034-1/2 and IEC 61754-1/2
- > Compliant to Directive 2002/95/EC (RoHS) and REACH SvHC

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

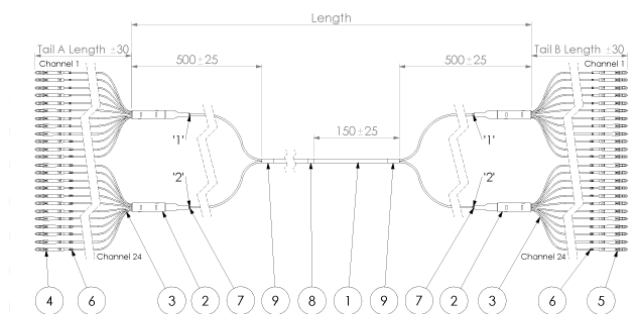
FibreType (ISO/IEC 11801)	OS1/OS2	OM1	OM2	OM3	OM4
Attenuation Coefficient [dB/km]	≤ 0.38 Max (1300nm) ≤ 0.25 Max (1300nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm)
	≤ 0.34 Typ (1550nm) ≤ 0.19 typ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



Typical tail length 1000mm

No.	Description	Qty.
1	12 Fibre Microcore Cable (See Sheet 2)	1
2	Ruggedised Breakout Module	2
3	2mm Furcation Tubing (See Sheet 2)	24
4	Connector Assembly End 1 (See Sheet 2)	12
5	Connector Assembly End 2 (See Sheet 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

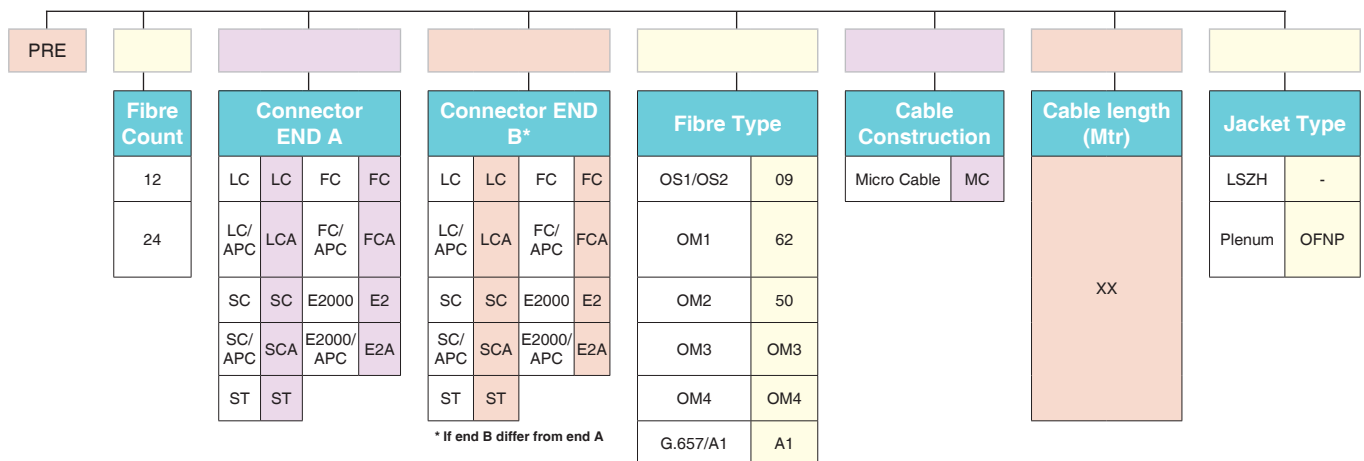
No.	Description	Qty.
1	24 Fibre Flat Duplex Microcore Cable (See Sheet 2)	1
2	Ruggedised Breakout Module	4
3	2mm Furcation Tubing (See Sheet 2)	48
4	Connector Assembly End 1 (See Sheet 2)	24
5	Connector Assembly End 2 (See Sheet 2)	24
6	Channel Identification Marker (C-Clip)	78
7	Sub Unit Identification Marker (C-Clip)	4
8	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)

Technical Specification

ELEMENT	CHARACTERISTIC
Fibre	OS1/OS2, 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 4.5 x 7.4 ± 0.3mm Jacket material: LSZH, OFNP Jacket colour: OS1/OS2 (Yellow) OM1/OM2 (Orange) OM3 (Purple/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

Part Number Generator



* If end B differ from end A

Example Part Number: **PRE24LCOM3MC20**

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