

## Multi-Fibre Micro Cable Assemblies with 2mm Tails

Micro cable ruggedized pre-terminated assemblies with 2mm tails. They feature low loss optical performance, while the 2mm tail structure is ideal for applications where the cable is non-protected, ex. outside patch panels, ODFs and wall boxes. The overall small and compact size of these assemblies improves cable management and airflow in rack systems.

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### Features

- Compact size and low weight
- Improved cable management
- Low loss performance
- 2mm tails
- Up to 144 fibres
- Available with various optical connectors
- Available in standard and reduced bend sensitivity OM1, OM2, OM3, OM4 and OS1/OS2 (G.652.D,G.657A1) fibre
- LSZH, OFNP or OFNR jacket option
- 100% Factory terminated and tested

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### Applications

- Data centres
- FTTx
- Telecommunication networks
- Internal short links
- Ideal for drop cable and high density applications
- Outside panels, ODFs and wall boxes applications

## Specifications

ELEMENT	CHARACTERISTIC
Fibre	G.652D, G.657A1, OM1, OM2, OM3, OM4
Tail Dimensions	2mm Simplex Tails Fanout (Standard), 2mm Simplex Tails Staggered configuration with Pulling Element (Optional)
Terminations	LC, SC, ST, FC, E2000
Cable Construction	Double Jacket 12-24 Core Micro Cable
Cable Diameter	24 Core Max 4.5 ± 0.3mm
Crush Resistance	1000N/100mm
Cable Tensile Strength	(Short/Long) 400N/150N
Cable Strength Member	Aramid
Storage Temperature	-20 ~ +60°C
Installation Temperature	-5 ~ +50°C
Operating Temperature	-20 ~ +60°C
Tail Protection	Bubble Wrap (Standard), Reusable Sock/Protection tube (Optional)
Packaging	Length ≤100mtr: HD Bag Length >100mtr: Drum

## Connector Performance

OPTICAL PERFORMANCE*	MM PREMIUM	MM STANDARD	SM PREMIUM	SM STANDARD	CONFORMANCE
IL Max/Master (Acceptance)	0.15dB	0.25dB	0.15dB	0.25dB	IEC 61300-3-4
Ave/Master	0.08dB	0.15dB	0.12dB	0.18dB	IEC 61300-3-4
Ave/Random	0.10dB	0.20dB	0.12dB	0.18dB	IEC 61300-3-34
RL (Min Acceptance)	NA	NA	55/65**	55/65**	IEC 61300-3-6

\*Connector Performance table does not refer to E2A terminations. \*\*UPC/APC

## Cable Performance

Fibre Type (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)
	≤ 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: Overfilled Launch (Mhz-km)	N/A	≤ 200 (850nm)	≤ 500 (850nm)	≤ 1500 (850nm)	≤ 3500 (850nm)
		≤ 500 (1300nm)	≤ 500 (1300nm)	≤ 500 (1300nm)	≤ 500 (1300nm)
Minimum Bandwidth: Laser Effective Modal Bandwidth (Mhz-km)	N/A	N/A	N/A	≤ 2000 (850nm)	≤ 4700 (850nm)

## 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

## Ordering Information

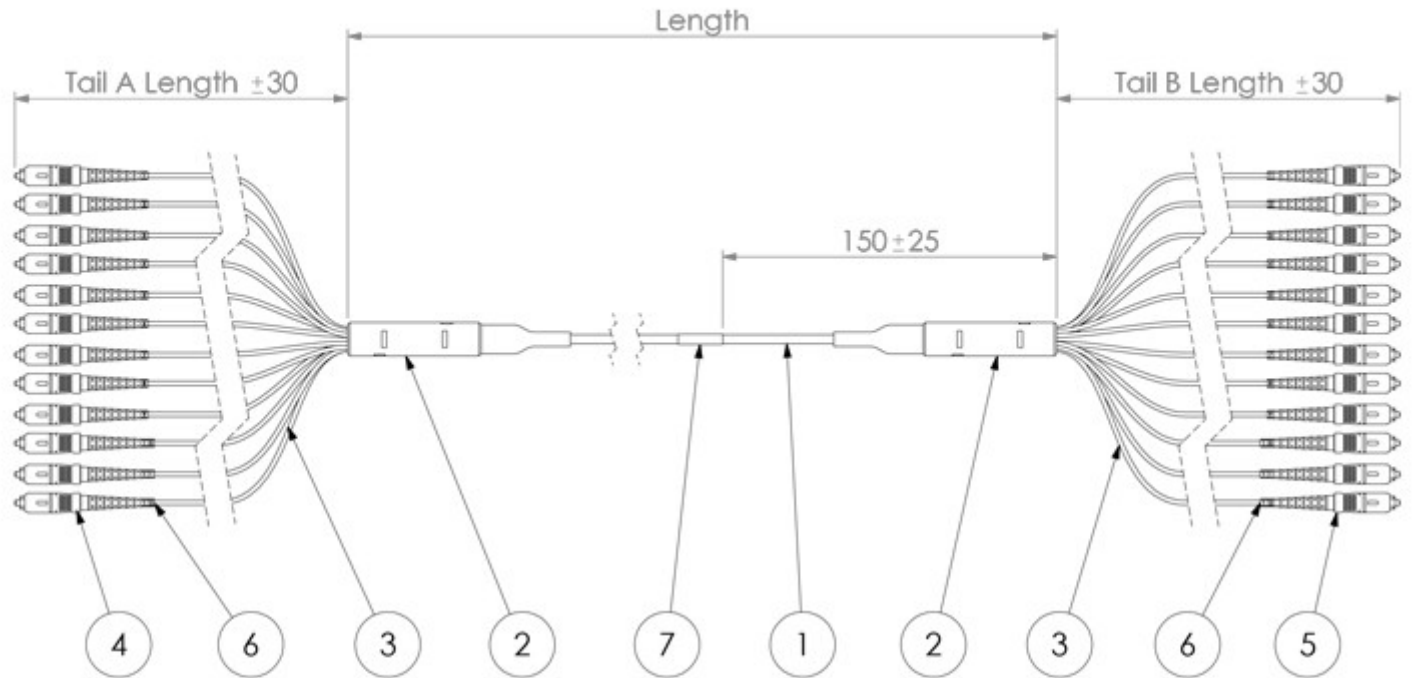
	Connector A		Connector B		Fibre Type		Cable Type		Fibre Count		Length		Extra Options	
	Code	Label	Code	Label	Code	Label	Code	Label	Code	Label	Code	Label	Code	Label
OP	00	LC	00	LC	9	G.652.D	M2	Microcable with 2mm tails LSZH	12	12	01	1m	-	LSZH
	01	LCA	01	LCA	1	OM1			24	24	02	2m	R	OFNR
	02	SC	02	SC	2	OM2			48	48	03	3m	P	OFNP
	03	SCA	03	SCA	3	OM3			72	72	05	5m		
	04	ST	04	ST	4	OM4					10	10m		
	05	FC	05	FC	A1	G657A1					...	...		
	06	FCA	06	FCA							xx	Specify		
	07	E2	07	E2										
	08	E2A	08	E2A										

## Example order code

OP	-	00	00	A1	M2	12	-	100
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LC/UPC – LC/UPC 12 Core Pre-terminated Micro Cable with 2mm Tails, Singlemode G.657.A1 100m

Technical Drawing



Typical tail length 1000mm

No.	Description	Qty.
1	12 Fibre Micro 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)