

Multi-fibre Full Breakout Cable Assemblies

Full breakout multi-fibre cable assemblies are designed for applications where direct connection of panels or equipment is required. The ruggedized cable subunits are patch cord style with a 2mm cable diameter so that these assemblies can be used outside the patch panels, ODF or wall boxes.

The use of these multi-fibre assemblies provides improved cable management and reduces installation costs. Being 100% factory terminated and tested ensures network performance in critical fibre applications.

Features

- 2 to 24 full breakout cable
- 2mm ruggedized tails
- Factory terminated and tested
- Available with various types of optical connectors
- Available with OM1, OM2, OM3, OM4 and OS1/OS2 fibres
- Low Smoke Zero Halogen (LSZH) cable jacket
- TIA/EIA, ISO/IEC and Telcordia compliant
- RoHS, REACH, SvHC compliant
- Saves installation time and costs
- 100% factory terminated and tested

Applications

- Data centres
- Telecommunication networks
- Direct connection to equipment/panel
- Internal Short Links
- Front Panel/Equipment Connection

Specifications

ELEMENT	CHARACTERISTIC
Fibre	OS ₁ /OS ₂ , OM ₁ , OM ₂ , OM ₃ , OM ₄ (ISO/IEC 60793)
Tail Dimensions	2mm Simplex Tails Fanout Configuration, 2mm Simplex Tails Staggered Configuration
Cable Construction	Full Breakout 4, 8, 12 and 24 Cores (ISO/IEC 60794)
Cable Colour	OS ₁ /OS ₂ – Yellow, OM ₁ /OM ₂ – Orange, OM ₃ /OM ₄ – Aqua
Terminations	SC, LC, FC, ST, E2000
Cable Diameter	4 Core OD Max 7.0 ± 0.3mm, 8 Core OD Max 9.4 ± 0.3mm, 12 Core OD Max 11.8 ± 0.3mm, 24 Core OD Max 14.1 ± 0.3mm
Crush Resistance	1000N / 100mm
Cable Tensile Strength	4 Core (Short/Long) 500N/270N, 8 Core (Short/Long) 1100N/700N, 12 Core (Short/Long) 1400N/800N, 24 Core (Short/Long) 1400N/800N
Cable Strength Member	FRP/Aramid
Storage Temperature	-20 ~ +60°C
Installation Temperature	0 ~ +50°C
Operating Temperature	-20 ~ +60°C
Tail Protection	Fanout Configuration – Bubble Wrap, Staggered Configuration – Crush Resistance tube OD Max 27mm
Pulling Element	Staggered Configuration – Pulling eye attached to FRP Rod
Packaging	Length <50mtr: HD PE, Bag Length >50mtr: 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 to E2A terminations.

**UPC/APC

Cable Performance

Fibre Type (ISO/IEC 11801)	OS ₁ /OS ₂	OM ₁	OM ₂	OM ₃	OM ₄
Attenuation Coefficient (dB/km)	≤ 0.38 Max (1300nm) ≤ 0.25 Max (1300nm) ≤ 0.34 Typ (1550nm) ≤ 0.19 Typ (1550nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm) ≤ 2.9 Typ (850nm) ≤ 1.2 Typ (1300nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm) ≤ 2.7 Typ (850nm) ≤ 0.9 Typ (1300nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm) ≤ 2.7 Typ (850nm) ≤ 0.9 Typ (1300nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm) ≤ 2.7 Typ (850nm) ≤ 0.9 Typ (1300nm)
Minimum Bandwidth: Overfilled Launch (Mhz-km)	N/A	≥ 200 (850nm) ≥ 500 (1300nm)	≥ 500 (850nm) ≥ 500 (1300nm)	≥ 1500 (850nm) ≥ 500 (1300nm)	≥ 3500 (850nm) ≥ 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	
	Code	Connector	Code	Connector	Code	Fibre Type	Code	Description	Code	Count	Code	Length
OP	00	LC	00	LC	9	G.652.D	BO	Breakout	02	2	01	1m
	01	LCA	01	LCA	1	OM1			04	4	02	2m
	02	SC	02	SC	2	OM2			06	6	03	3m
	03	SCA	03	SCA	3	OM3			08	8	05	5m
	04	ST	04	ST	4	OM4			12	12	10	10m
	05	FC	05	FC	A1	G657A1			16	16
	06	FCA	06	FCA					24	24	xx	Specify
	07	E2	07	E2								
	08	E2A	08	E2A								

Example order code

OP - 00 00 3 BO 12 - 70

LC/UPC – LC/UPC 12 Core Pre-terminated Breakout Cable LSZH OM3 70m

Technical Drawing

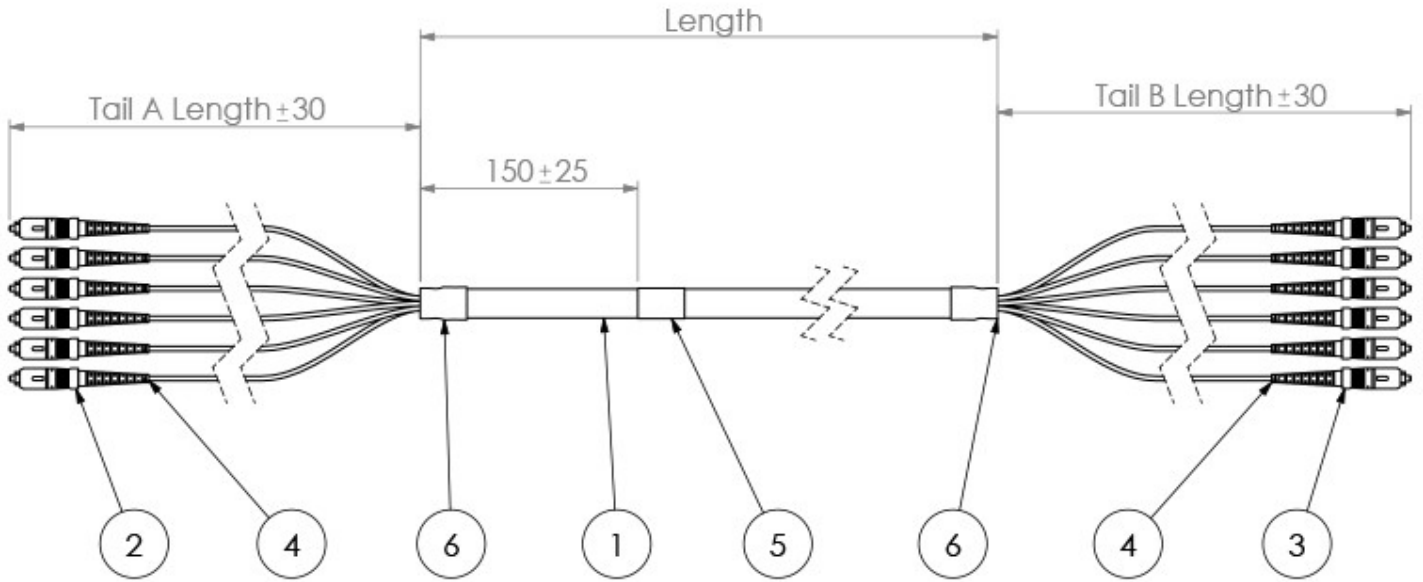


Diagram is for illustration. Fibre count can be 2, 4, 6, 8, 12, 16 or 24 fibre.

Typical configuration has 1m fanout tails at both ends and no glands or pulling device.

Tails packaged in bubblewrap bags.

No.	Description	Qty.
1	Ruggedised Breakout Cable (See Sheet 2)	1
2	Connector Assembly End A (See Sheet 2)	-
3	Connector Assembly End B (See Sheet 2)	-
4	Channel Identification Marker (C-Clip)	-
5	Serial Number Label (Sheath)	1
6	Split Retainer (Black)	2
	Gland*	-