

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.

Applications

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

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

Specifications

ELEMENT	CHARACTERISTIC
Fibre	OS1/OS2, OM1, OM2, OM3, OM4 (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	OS1/OS2 – Yellow, OM1/OM2 – Orange, OM3/OM4 – 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

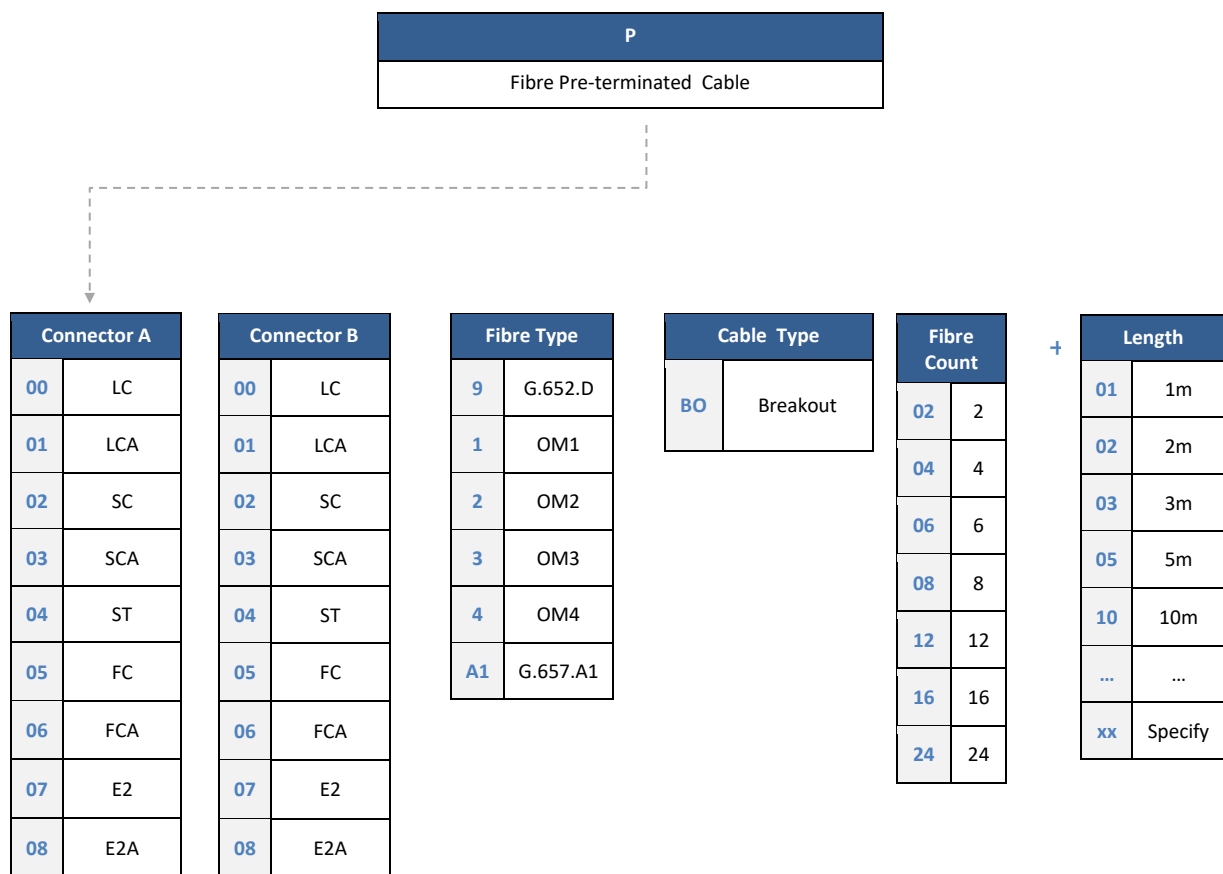
Cable Performance

Fibre Type (ISO/IEC 11801)	OS1/OS2	OM1	OM2	OM3	OM4
Attenuation Coefficient (dB/km)	≤ 0.38 Max (1300nm)	≤ 3.5 Max (850nm)	≤ 3.5 Max (850nm)	≤ 3.5 Max (850nm)	≤ 3.5 Max (850nm)
	≤ 0.25 Max (1300nm)	≤ 1.5 Max(1300nm)	≤ 1.5 Max(1300nm)	≤ 1.5 Max(1300nm)	≤ 1.5 Max(1300nm)
	≤ 0.34 Typ (1550nm)	≤ 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 (1300nm)	≥ 500 (850nm) ≥ 500 (1300nm)	≥ 1500 (850nm) ≥ 500 (1300nm)	≥ 3500 (850nm) ≥ 500 (1300nm)
	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



Example:

P-00003BO12-70 – LC/UPC – LC/UPC 12 Core Pre-terminated Breakout Cable LSZH OM3 70m

Technical Drawing

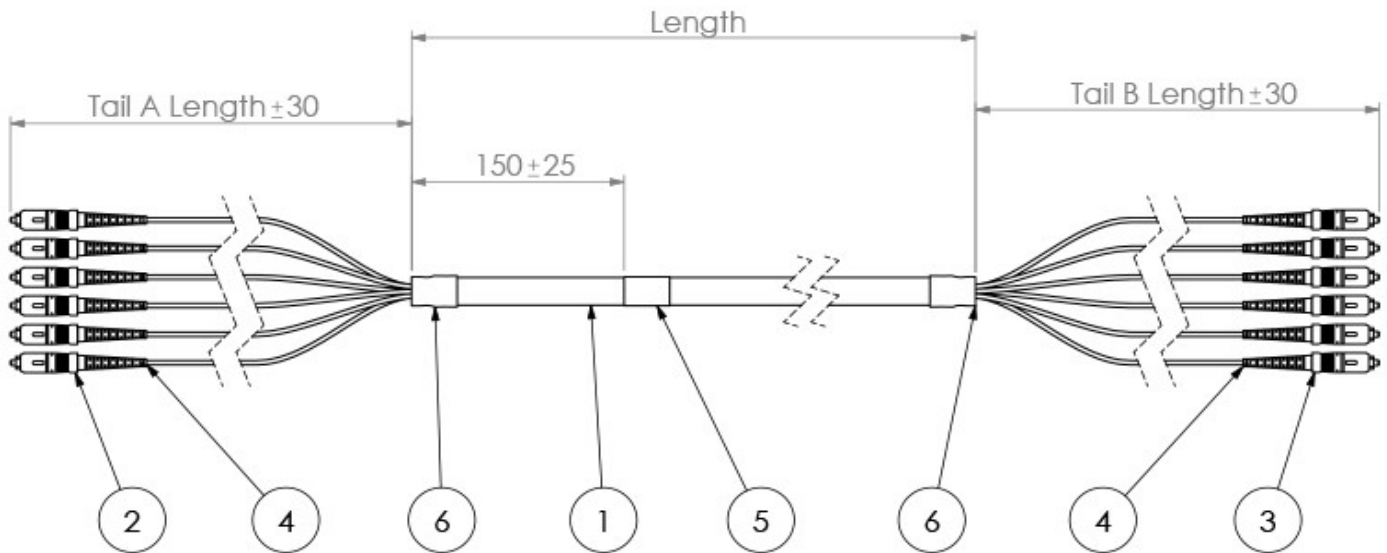


Diagram is for illustration. Fibre count can be 2, 4, 6, 8, 12, 16 or 24 fibre.

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*	-