

Multi-Fibre Loose Tube Cable Assemblies

Loose tube multi-fibre pre-terminated assemblies designed and manufactured with a variety of standard optical and MTP/MPO connectors. With a core count up to 144 fibres using 900µm or 2mm ruggedised tails they are an ideal solution for high density applications.

Features

- Low loss performance
- Up to 144 fibres – ideal for high density applications
- Available with both standard optical connectors and MTP®
- Available in OS1/2, G.657A1, OM1, OM2, OM3, OM4
- Option for 900µm or 2mm ruggedized tails
- 100% factory terminated and tested
- Saves installation time and costs
- Option for MTP® to MTP® trunk or MTP® to LC or SC fanout
- Compact size
- TIA/EIA, ISO/IEC and Telcordia compliant
- RoHS, REACH and SvHC compliant

Applications

- Data centres
- Telecommunication networks
- Internal and backbone applications

Specifications

ELEMENT	CHARACTERISTIC
Fibre	OS1/OS2, G.657A1, OM1, OM2, OM3, OM4 (ISO/IEC 60793)
Tail Dimensions	900µm Simplex Tails Stagger Configuration, 2mm Simplex Tails Stagger Configuration
Terminations	SC, LC, FC, ST, E2000, MTP®
Cable Construction	Single Loose Tube (LT) 2-24 Cores (IEC 60794), Multi Loose Tube up to 48 Cores, Single Loose Tube STA Armoured 2-24 cores, Multi Loose Tube STA Armoured up to 48 cores, Jacket Material: LZSH, PE; OFNP, OFNR, Jacket Colour: Black
Cable Diameter	Single LT (Up to 12 Cores) OD MAX: 3.0 ± 0.15mm, Single LT (Up to 24 Cores) OD MAX: 9.0 ± 0.5mm Multi LT (Up to 48 Cores) OD MAX: 9.0 ± 0.5mm, Multi LT (Up to 72 Cores) OD MAX: 11.2 ± 0.5mm Multi LT (Up to 96 Cores) OD MAX: 13.5 ± 0.5mm, Multi LT (Up to 144 Cores) OD MAX: 17.5 ± 0.5mm
Crush Resistance	Single LT - Short: 1000N/100mm; Long: 500N/100mm, Multi LT - Short: 1000N/100mm; Long: 500N/100mm
Cable Tensile Strength	Single LT (Short/Long) 500N/200N, Multi LT (Short/Long) 660N/300N
Cable Strength Member	Kevlar & FRP
Storage Temperature	-20 ~ +70°C
Installation Temperature	-20 ~ +70°C
Operating Temperature	-20 ~ +70°C
Tail Protection	Crush Resistance Tube – OD MAX 25mm (24x900µm Tails, 12x2mm Tails) Crush Resistance Tube - OD MAX 32mm (48x900µm Tails, 24x2mm Tails)
Pulling Element	RPS Reusable Sock End A (Assembly Length above 20 meters)
Gland	PG 13.5 End A/B (24x900µm Tails, 12x2mm Tails), M25 End A/B (48x900µm Tails, 24x2mm Tails)
Packaging	Length ≤ 100 - Heavy Duty PE bag / Length >100m - Drum (up to 24xFibres)

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)	≤ 0.40 Max (1310nm) ≤ 0.30 Max (1550nm) ≤ 0.34 Typ (1310nm) ≤ 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		Extra Options	
OP	00	LC	00	LC	9	G.652.D	LT	Loose Tube Cable with 900um Tails	04	4	01	1m	-	LSZH
	01	LCA	01	LCA	1	OM1	LR	Loose Tube Cable with 2mm Tails	06	6	02	2m	R	OFNR
	02	SC	02	SC	2	OM2	ST	Loose Tube STA Cable with 900um Tails	08	8	03	3m	P	OFNP
	03	SCA	03	SCA	3	OM3	SR	Loose Tube STA Cable with 2mm Tails	12	12	05	5m	E	PE
	04	ST	04	ST	4	OM4			16	16	10	10m	A	Polarity A (use it only with MTP®)
	05	FC	05	FC	A1	G.657A1			24	24	B	Polarity B (use it only with MTP®)
	06	FCA	06	FCA					36	36	xx	Specify	C	Polarity C (use it only with MTP®)
	07	E2	07	E2					48	48				
	08	E2A	08	E2A					72	72				
	20	MTP® Male	20	MTP® Male					96	96				
	22	MTP® Female	22	MTP® Female					144	144				
	24	MTP® Male Elite	24	MTP® Male Elite										
	26	MTP® Female Elite	26	MTP® Female Elite										

Example Part Number

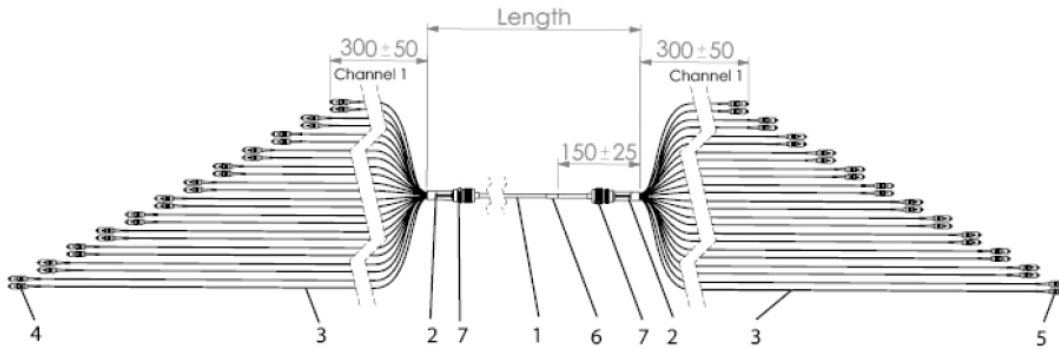
OP - 00 00 3 LT 12 - 70

LC/UPC – LC/UPC 12 Core Pre-terminated Loose Tube Cable LSZH OM 3 with 900µm Tails 70m

OP - 20 20 4 LR - 70 - AR

MTP® Male to MTP® Male Polarity A 12 core Pre-terminated Loose Tube Cable OM4 with 2mm Tails OFNR

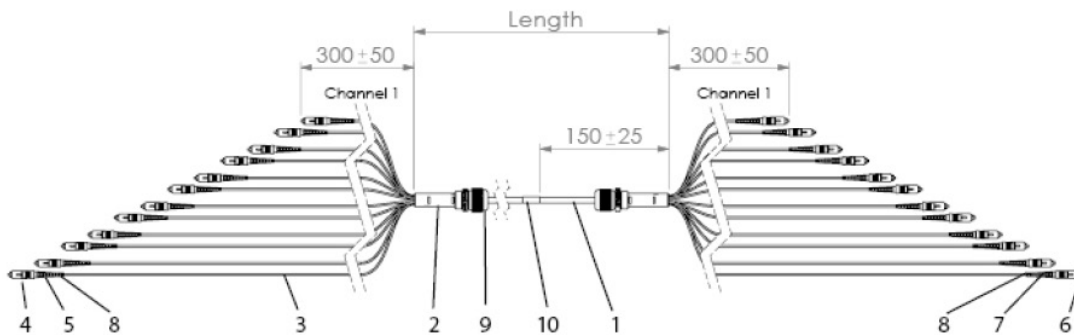
Technical Drawing



No.	Description	Qty.
1	Loose Tube Cable	1
2	Breakout Module	2
3	900µm Solid Coloured Oversleeve Tubing	-
4	900µm Connector Assembly End 1	-
5	900µm Connector Assembly End 2	-
6	Serial Number Label (Wrap around)	1
7	Gland	2

option - Technical drawing

900um



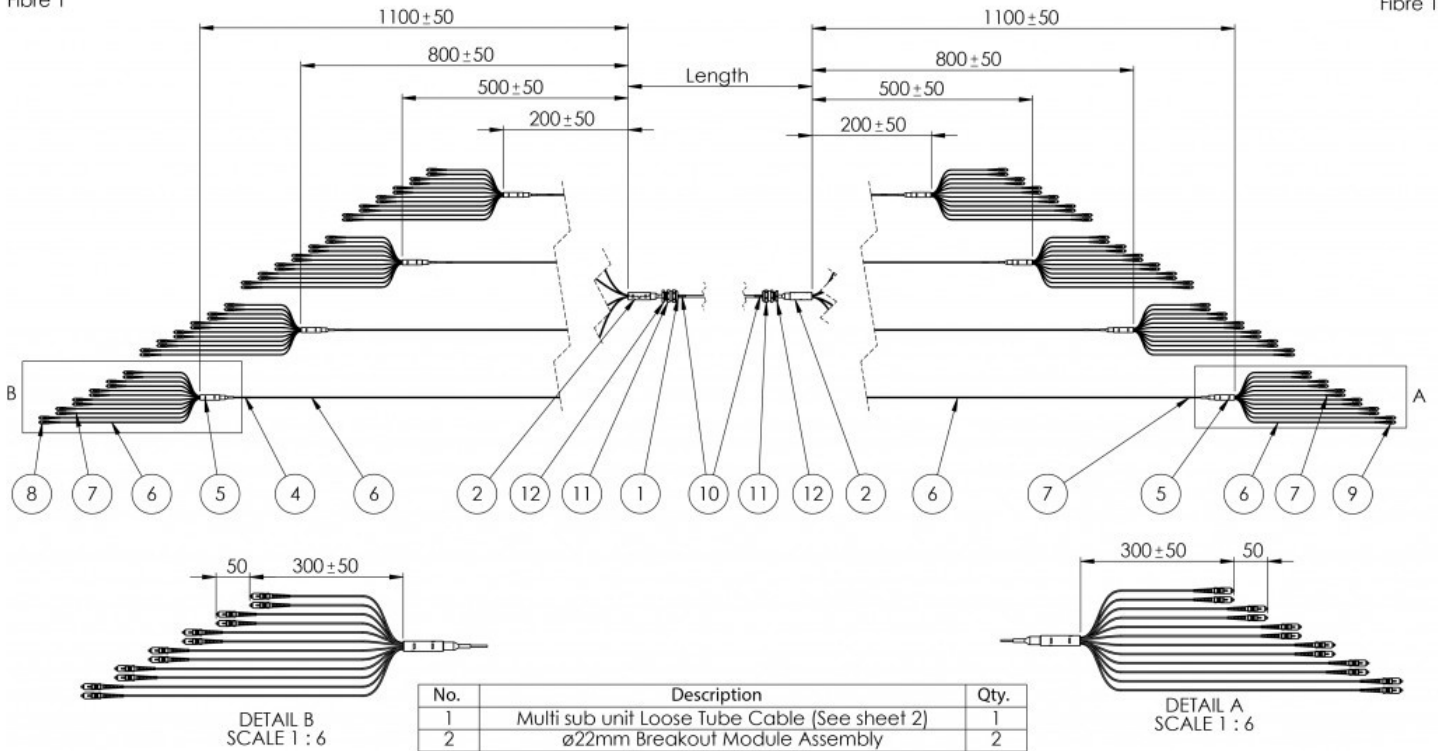
No.	Description	Qty.
1	Loose Tube Cable	1
2	Breakout Module	2
3	2mm Furcation Tubing	-
4	Connector End 1	-
5	Connector End 1 2mm Boot	-
6	Connector End 2	-
7	Connector End 2 2mm Boot	-
8	Channel Identification Marker (C-Clip)	-
9	Gland	2
10	Serial Number Label (Sheath)	1

option - Technical drawing

2mm

End 1
Fibre 1

End2
Fibre 1



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