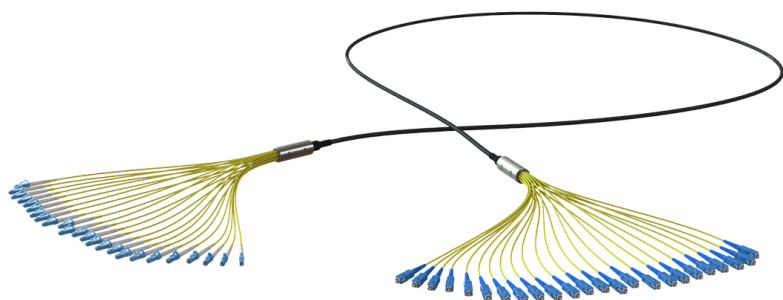


# Multifiber Loose Tube (LT) Cable Assembly



Loose Tube Multifiber Cable Assemblies utilize the patented AFL Hyperscale® transition modules which guarantees superior tensile strength and crushing resistance. The high density design can scale from 2 up to 144 fibers and can feature both 900µm and ruggedised 2mm tail leads. Assemblies can comprise of both multifiber MTP/MPO and discrete connectors, making the AFL Hyperscale® a flexible hybrid solution for diverse applications.

## FEATURES/BENEFITS

- Available in OS1/2 G652D and G.657A1, OM1, OM2, OM3, OM4
- Up to 144 fiber core count
- Available with Multifiber MTP/MPO and discrete connectors
- 900µm or 2mm ruggedised tails
- Internal/External Application
- Factory terminated and tested
- Steel tape armored version available
- **Very High Density** AFL Hyperscale® LT can scale up to 144 fibers for very high density Data Centre or Central Office application.
- **Hybrid MTP/MPO and Discrete Connector Interface** AFL Hyperscale® LT can be used as high density multifiber MTP/MPO ruggedised trunk or ruggedised MTP/MPO to LC or SC fanouts.
- **Tails Selection** 2mm ruggedised tails can be used for a direct front panel or equipment connections whereas 900µm tails can be used for installation inside fiber management.
- **Rapid Deployment** Factory terminated cabling saves installation and reconfiguration time eliminating field deployment variables.
- **Optimised Performance** Low loss MTP/MPO Elite, discrete Premium connectors and OM4 fiber assures low insertion losses and power penalties in tight power budget high speed network environment.
- **Compact Size** Small dimension of breakout module and multifiber assemblies improves space management in high density applications.

## APPLICATIONS

- Data Centre Infrastructure
- Central Office, Access Points or CATV hubs
- Internal and Backbone Application

## SPECIFICATIONS

ELEMENT	CHARACTERISTICS
Fiber	OS1/OS2 G.652D or G.657A1, OM1, OM2, OM3, OM4 (ISO/IEC 60793)
Tail Dimensions	900µm Simplex Tails Stagger Configuration 2mm Simplex Tails Staggered Configuration
Terminations	SC, LC, ST, FC, E2000
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 <b>Jacket Material:</b> LSZH, PE; OFNP, OFNR <b>Jacket Colour:</b> Black
Cable Diameter	Single LT (Up to 24 Cores) OD MAX: 5.8 ± 0.3mm Multi LT (Up to 48 Cores) OD MAX: 13.7 ± 0.3mm
Crush Resistance	Single LT 1000N/100mm Multi LT 3000N/100mm
Design Pulling Strength	Single LT (Short) 1000N Multi LT (Short) 1000N
Cable Strength Member	Single LT - E-glass Multi LT - FRP/ E-glass
Storage Temperature	-5 ~ +40 °C
Installation Temperature	-20 ~ +60 °C
Operating Temperature	-20 ~ +60 °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 24xFibers)

## Connector Performance

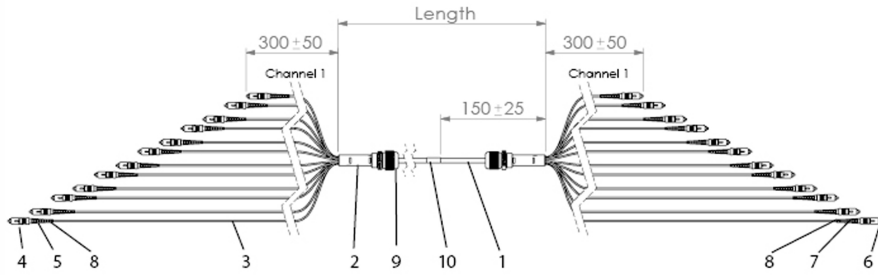
OPTICAL PERFORMANCE*	MM PREMIUM	MM STANDARD	SM PREMIUM	SM STANDARD	CONFORMANCE
IL Max/Master (Acceptance)	0.15dB	0.25dB	0.15dB	0.25dB	IEC 61300-3-4
Ave/Random	0.10dB	0.20dB	0.12dB	0.18dB	IEC 61300-3-6

\*Connector Performance table does not refer to E2A Terminations

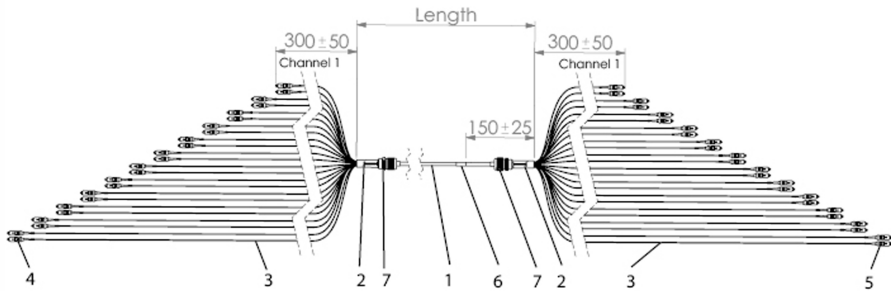
\*\* UPC/APC

## Cable Performance

FIBERTYPE (ISO/IEC 11801)	OS1/OS2	OM1	OM2	OM3	OM4
Attenuation Coefficient [dB/km]	≤0.38Max(1310nm) ≤0.25Max(1550nm) ≤0.34Typ (1310nm) ≤ 0.19Typ(1550nm)	≤ 3.5Max(850nm) ≤1.5Max(1300nm) ≤ 2.9 Typ(850nm) ≤1.2Typ(1300nm)	≤ 3.5Max(850nm) ≤1.5Max(1300nm) ≤ 2.7 Typ(850nm) ≤0.9Typ(1300nm)	≤ 3.5Max(850nm) ≤1.5Max(1300nm) ≤ 2.7Typ(850nm) ≤0.9Typ(1300nm)	≤ 3.5Max(850nm) ≤1.5Max(1300nm) ≤ 2.7Typ(850nm) ≤0.9Typ(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)



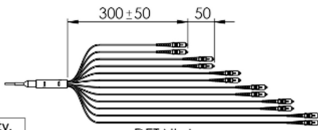
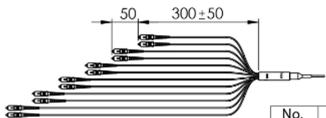
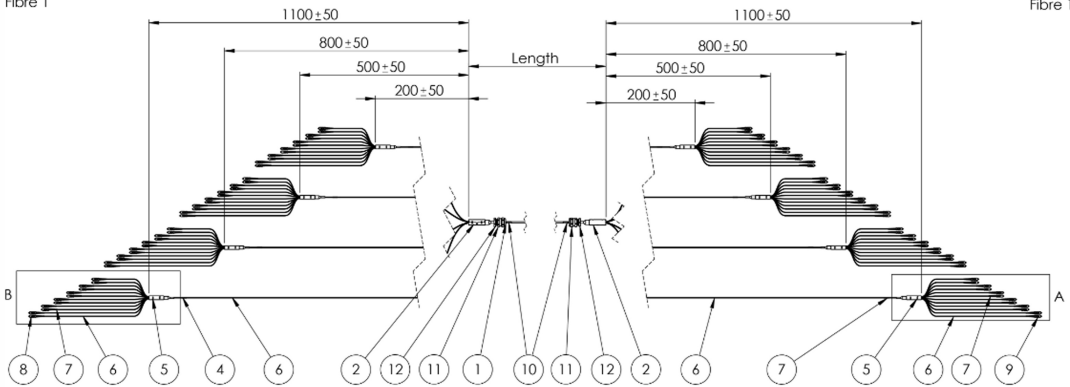
No.	Description	Qty.
1	Loose Tube Cable	1
2	Breakout Module	2
3	2mm Furcation Tubing	-
4	Connector End 1	-
5	Connector End 1 2mm Boot	-
6	Connector End 2	-
7	Connector End 2 2mm Boot	-
8	Channel Identification Marker (C-Clip)	-
9	Gland	2
10	Serial Number Label (Sheath)	1



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

End 1  
Fibre 1

End2  
Fibre 1



No.	Description	Qty.
1	Multi sub unit Loose Tube Cable (See sheet 2)	1
2	ø22mm Breakout Module Assembly	2
3	ø3mm O.D M2FX Tubing	8
4	Subunit Identification Label (Wrap-around)	8
5	ø15mm Breakout Module	8
6	2mm Furcation tubing (See Sheet 2)	96
7	Fibre Identification Marker (C-Clip)	174
8	Connector Assembly - End 1 (See Sheet 2)	48
9	Connector Assembly - End 2 (See Sheet 2)	48
10	Serial Number Label (Wrap-around)	2
11	M25 Compression Gland	2
12	M25 Compression Gland Nut	2

## ADDITIONAL INFORMATION

- 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

PRE	Fiber Count		Connector End A		Connector End B *If end B differs from end A		Fiber Type		Cable Construction		Cable Length		Jacket Type	
	2	2	LC	LC	LC	LC	09	OS1/OS2	LT	Loose Tube (900um tails)	1	1 meter	leave blank	LSZH
	4	4	LCA	LC APC	LCA	LC APC	62	OM1	LTR	Loose Tube (2mm tails)	2	2 meter	PE	PE
	6	6	SC	SC	SC	SC	50	OM2	STA	LT Steel Tape Armoured (900um tails)	3	3 meter	E**	CPR Euroclass Eca
	8	8	SCA	SC APC	SCA	SC APC	OM3	OM3	STAR	LT Steel Tape Armoured (2mm tails)	5	5 meter		
	12	12	FC	FC	FC	FC	OM4	OM4			10	10 meter		
	16	16	FCA	FC APC	FCA	FC APC	A1	G657A1			XX	Specify		
	24	24	E2	E2000	E2	E2000								
	48	48	E2A	E2000 APC	E2A	E2000 APC								
	*				XX	Open End								

## Available on Special Request - Contact Sales Office

\*Higher core count | \*\* MLT (<72xF) EuroClass Dca s2 d1 a1 | LT (<24xF) EuroClass Dca s2 d1 a1 | LT STA (<24xF) EuroClass Cca-s1,d1,a1

## Example Part Number

PRE	24	LC	-	OM3	LT	20	
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**PRE24LCOM3LT20** = AFL Hyperscale Multifiber Assembly 24 cores LC-LC OM3 50/125 Loose Tube 900µm tails LSZH Black 20mtr



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## FURTHER INFORMATION

- For additional information please contact your sales representative
- To view the product 360 visit the product page (Scan the QR code or visit the link below)
- Downloaded from <https://www.aflhyperscale.com/product/Multifiber-LT-Assembly>
- AFL Hyperscale reserves the right to make changes in this datasheet at any time without notice
- Information in this document is correct as of February 26, 2019

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