



12F and 24F SM/OM4 Single Element MTP®



144F SM Sub-unitised MTP®



12F OM4 Single Element MTP® Fanout

MTP® Cable Assemblies

AFL's MTP[®] Micro Cable assemblies provide a high-performance plug and play solution for any multi-fibre installation. Utilising several Micro Cable construction types, our assemblies cater to any network requirement, from:

- 12 or 24 fibres in a 3 mm single element or 4.8/4.5 mm ruggedised (double jacket).
- 24 up to 144 fibres in a sub-unitised cable, featuring 2 mm sub-units with 12 fibre per sub.

All MTP[®]-MTP[®] trunk (backbone) assemblies are pre-terminated with Low loss MTP Elite[®] Connectors, offering reliable and consistent performance. MTP[®] to discrete connector (LC,SC) harnesses (fanouts) are also available on all Micro Cable types and fibre counts.

AFL's Micro Cables provide space saving and higher fibre density within cable trays, raceways and internal conduits. All Micro Cable outer and inner jackets are made from LSZH materials.

Used in conjunction with AFL's MTP[®] fibre management systems, our pre-terminated MTP[®] Micro Cable assemblies provide a compact high fibre count solution that is scalable for future network requirements.

Features

- Available in a range of Micro Cable constructions and colours
- Low loss MTP Elite[®] Connectors featuring push/pull tabs
- High quality, machine polished connectors for consistent low loss performance
- Configurable options to suit connector gender, network polarity and fibre count requirements, and more

Applications

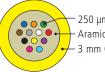
- Data Centres
- Structured Cabling Networks
- 10G/40G/100G backbone cables
- Direct patch cables
- Extension cables



MTP[®] Cable Assembly Configurations Single Element (12F, 24F)

Single Element MTP[®] Micro Cable assemblies feature 12 or 24 (SM or OM4) fibres in a single element, allowing for the smallest possible cable diameter while not compromising strength and fibre protection.

Single Element cable assemblies are configurable with 12F or 24F MTP[®] Connectors on both ends (trunk) or with discrete connectors on one end (harness) via a breakout module.



– 250 μm Coated Fibres – Aramid Strength Members – 3 mm Outer Jacket

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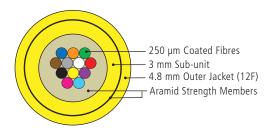


MTP® Cable Assemblies

Ruggedised (12F, 24F)

Ruggedised MTP[®] Micro Cable Assemblies feature 12 or 24 (SM or OM4) fibres in a single element, protected by a second 4.5 mm or 4.8 mm jacket (12F 4.8 mm, 24F 4.5 mm) and extra Aramid strength members. These assemblies provide extra protection while maintaining a small footprint.

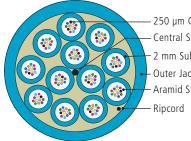
Ruggedised Cable Assemblies are configurable with 12F or 24F MTP[®] Connectors on both ends (trunk) or with discrete connectors on one end (harness) via a breakout module.



Sub-unitised (24F to 144F)

AFL's Sub-unitised MTP[®] Cable Assemblies provide a high density/small footprint backbone cabling solution. These cables feature 2 mm sub-units, with 12 fibres per sub. Fibre core counts are available from 24-144F in both SM and OM4.

Sub-unitised Cable Assemblies are configurable with 12F MTP[®] Connectors on both ends (trunk) or with discrete connectors on one end (harness) via a breakout module.

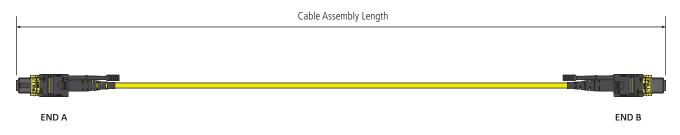


250 µm Coated Fibres Central Strength Member 2 mm Sub-units Outer Jacket Aramid Strength Members Ripcord

Specifications Assembly Dimensions

Total cable assembly length is measured from connector ferrule to connector ferrule. Breakout length is measured from the breakout point to the connector ferrule.

Single Element Cable Assemblies (12F, 24F)



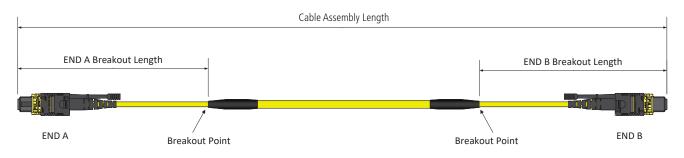




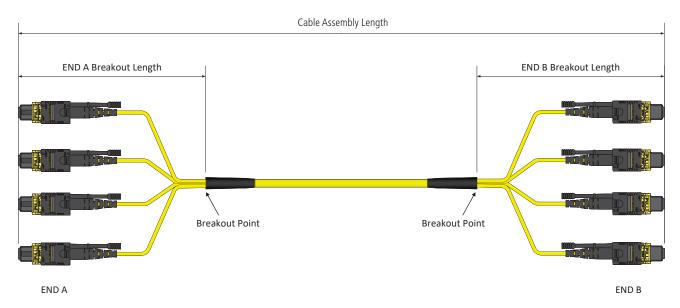
MTP® Cable Assemblies

Specifications

Ruggedised Cable Assemblies (12F, 24F)



Sub-unitised Cable Assemblies (48F assembly shown)



Connector Specifications

MTP Elite®

OPTICAL PERFORMANCE	MULTIMODE 850 nm (PC POLISH)	SINGLE-MODE 1310 nm (APC POLISH)	TEST METHOD
Insertion Loss (Max.)	≤ 0.35 dB	≤ 0.35 dB	IEC 61300-3-4
Return Loss (Max.)	≥ 20 dB	≥ 60 dB	IEC 61300-3-6

Discrete Connectors (SC, LC)

OPTICAL PERFORMANCE	VALUE	TEST METHOD
Insertion Loss (Max.)	≤ 0.25 dB	IEC 61300-3-4
Return Loss (SM, UPC)	≥ 55 dB	IEC 61300-3-6
Return Loss (SM, APC)	≥ 65 dB	IEC 61300-3-6

Note: For cable, see the Indoor Premise Micro Cable datasheet for details.



MTP® Cable Assemblies

Ordering Information

MC U 1 YL 14 Product Type:			4 MTF F C 33112 K 999M Connector End A: MTF = 12F MTP® Female M2F = 24F MTP® female* M2F = 24F MTP® Male* M2M = 24F MTP® Male* M2M = 24F MTP® Male* M2M = 24F MTP® Male* M = MTP® Male^ LD = LC/UPC Duplex LC = LC/UPC Duplex LC = LC/UPC Duplex LC = LC/UPC Duplex LS = LC/APC Duplex LS = LC/APC Simplex LB = LC/UPC Simplex LB = LC/UPC Simplex LB = LC/UPC Simplex SA = SC/APC Simplex X = Blunt (Pigtail) Lnternal Use Length: Method B C = Method A B = Method B C = Method C F						Aetres 5 Metres		
Fibre Count Single Element & Ruggedised 8 - 8F (Fanout Only) 12 - 12F 24F - 24F		3		3		1	1			2	
		Bre	akout Length ^{&} End A	Bre	akout Length ^{&} End B	0\	versleeving ^s End B	I	nstallation Aids	Shi	pping Reel®
Sub-unitised		0	N/A	0	N/A	1	N/A	1	Not Required	1	N/A
24 - 24F 36 - 36F 48 - 48F 72 - 72F		1	300 mm	1	300 mm	2	2 mm	4	Protective Mesh End A	2	Shipping
		2	400 mm	2	400 mm			-		2	Reel
96 - 96F 144 - 144F		3	500 mm	3	500 mm			5	Protective Mesh		
		4	600 mm	4	600 mm			5	End A&B		
		5	700 mm	5	700 mm						
		6	800 mm	6	800 mm						
		7	900 mm	7	900 mm						
		8	1000 mm	8	1000 mm						
		0		-							

24F MTP® Method C configurations use custom polarity. Please contact AFL for more details. ^ End B MTP[®] connector to match fibre count of End A connector

Cable Jacket Colour Options

BU - Blue	RD - Red				
OR - Orange	BK - Black				
GN - Green	YL - Yellow				
BR - Brown	PK - Pink				
GY - Grey	EV - Erika Violet				
WH - White					

⁴ Oversleeving only required on fanout assemblies e.g. MTP®-LC. Oversleeving colour matches cable jacket colour.
⁶ Shipping Reel requirement dictated by assembly length, cable type and fibre count. Contact AFL for more details.

Note: Single-mode MTP[®] connectors are APC polished. Multimode MTP[®] connectors are UPC polished.