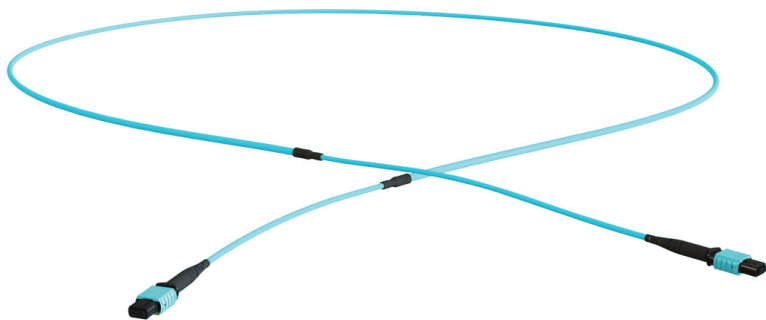


*Product updated on October 19, 2018*

## MPO MicroCable Trunk Assembly



MPO MicroCable Trunks facilitate rapid deployment of high density backbone cabling in data centers or other high fiber density environments reducing network installation or reconfiguration time and cost. They are used to interconnect cassettes, panels or ruggedised MPO Fan Outs, spanning MDA, HDA and EDA zones.

MPO MicroCable Trunks are offered in all fiber types as standard 12 to 144 core versions using a compact and rugged MicroCable structure. The compact cables optimize cable-way use and improve airflow.

MPO MicroCable Trunks are built with highest quality components. MPO low loss Premium versions are offered featuring low insertion loss for demanding high speed networks where power budgets are critical.

- OS1/2 G.657A1, OM3, OM4
- Jacket Standard Colours: G.657A1 Yellow, OM3 Aqua, OM4 Aqua (OM4 EricaViolet Available)
- 12xFiber Ferrule MPO
- Up to 144xFiber MicroCable
- LSZH, OFNP, OFNR Cable Jacket Options
- Female (standard) and Male MPO Connectors
- Polarity A (standard), B or C
- Factory Terminated and Tested
- Optional Pulling Element Available
- **MPO Interface** - MPO components feature superior optical and mechanical properties
- **Optimised Performance** - Low loss Premium MPO and OM4 fiber assures low insertion losses and power penalties in tight power budget high speed network environment
- **High Density** - Multifiber connector and compact dimension of ruggedised MicroCable ease space in costly data center environments
- **Rapid Deployment** - Factory terminated modular system saves installation and reconfiguration time during moves, adds and changes
- **Reliability - 100% tested** - Combination of high quality components and manufacturing quality control guarantees product to the highest standard
- **Next Generation Network Proof** - Emerging high speed protocol are going to use MPO interface

- Data Centre Infrastructure
- Storage Area Network- Fiber Channel
- Parallel Optics
- Infiniband
- Emerging 40 and 100Gbps Protocols

**SPECIFICATIONS**

ELEMENT	CHARACTERISTIC
Fiber	OS1/OS2 G657A1, OM3, OM4
Tail Dimensions	3 mm Tails
MPO Terminations	MPO 12 Fiber Ferrule <b>Boot Colour:</b> Black <b>Body Sleeve:</b> MM (Beige), MM Premium (Aqua, EricaViolet for EV Cable), SM (Green), SM Premium (Yellow)
Cable Diameter	12/24 Cores MicroCable Double Jacket OD Max 4.5 ± 0.3 mm 24 Core MicroCable Double Jacket Flat (4.2 ± 0.3 x 7.6 ± 0.4 mm) * 48 Core MicroCable Double Jacket OD Max 9.0 ± 0.3 mm
Crush Resistance	1000N/ 100 mm
Cable Tensile Strength	Double Jacket Microcable (up to 12 Cores) (Short/Long) 400N/ 150N Double Jacket Micro Cable (up to 48 Cores) (Short/Long) 1000N/ 300N
Storage Temperature	-20 ~ +60°C
Installation Temperature	-5 ~ +50°C
Operating Temperature	-20 ~ +60°C
Pulling Element: Optional	12 Core MicroCable- Rope attached to Aramid MicroCable MultiSubunit- Pulling Eye Bonded to FRP Rod

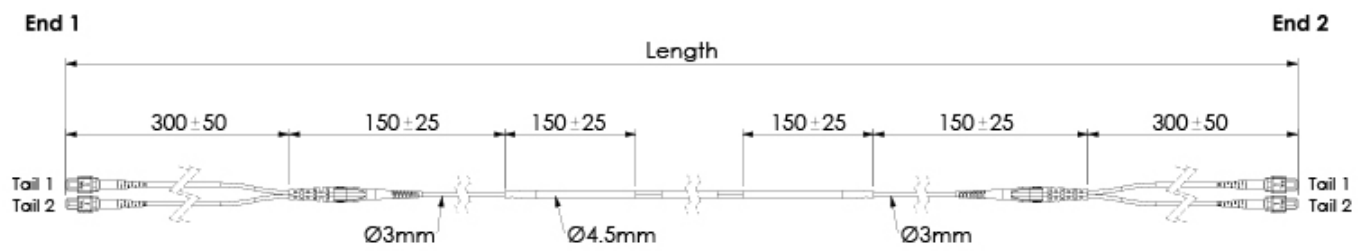
Contact customer service for product details confirmation if required

**Connector Performance**

CONNECTOR MATING	IL AVERAGE	IL MAX	RETURN LOSS
MPO Premium (MM)	0.10 dB	0.35dB	N/A
MPO (MM)	0.20 dB	0.60dB	N/A
MPO Premium (SM)	0.10 dB	0.35dB	>60 dB
MPO (SM)	0.25 dB	0.75dB	> 60 dB

**Cable Performance**

CABLED FIBRE TYPE (ISO/IEC 11801)	OS1/OS2	OM1	OM2	OM3	OM4
Attenuation Coefficient [dB/km]	≤0.38 Max (1310 nm) ≤0.25 Max 1310 nm) ≤0.34 Typ (1550 nm) ≤0.19 typ (1550 nm)	≤3.5 Max (850 nm) ≤1.5 Max (1300 nm) ≤2.9 Typ (850 nm) ≤1.2 Typ (1300 nm)	≤3.5 Max (850 nm) ≤1.5 Max (1300 nm) ≤2.7 Typ (850 nm) ≤0.9Typ (1300 nm)	≤ 3.5 Max (850 nm) ≤ 1.5 Max (1300 nm) ≤ 2.7 Typ (850 nm) ≤ 0.9 Typ (1300 nm)	≤ 3.5 Max (850 nm) ≤ 1.5 Max (1300 nm) ≤ 2.7 Typ (850 nm) ≤ 0.9 typ (1300 nm)
Minimum Bandwidth: Overfilled Launch [Mhz-km]	N/A	≥ 200 (850 nm) ≥ 500 (1300 nm)	≥ 500 (850 nm) ≥ 500 (1300 nm)	≥ 1500 (850 nm) ≥ 500 (1300 nm)	≥ 3500 (850 nm) ≥ 500 (1300 nm)
Minimum Bandwidth: Laser Effective Modal Bandwidth [Mhz-km]	N/A	N/A	N/A	≥ 2000 (850 nm)	≥ 4700 (850 nm)



## ADDITIONAL INFORMATION

- TIA/EIA-568-C.3 and ISO/IEC 11801
- IEC 61754-7 & EIA/TIA-604-5
- NFPA 262 or IEC 60332
- Materials compliant to RoHS and REACH SvHC
- IEC 60793

**ORDERING INFORMATION**

Connector End A		Connector End B*		Fiber Type		Fiber Count		Pulling Element		Cable Length		Length Unit		Cable Jacket Type		Polarity	
MF	MPO (F)	MF	MPO (F)	OM3	OM3 50/125 MicroCable	12	12 core	leave blank	No Pulling element Fanout tails (standard)	1	1	Leave Blank	metre	leave blank	LSZH	A	Polarity A
MPF	MPO Premium (F)	MPF	MPO Premium (F)	OM4	OM4 50/125 MicroCable	24	24 core	L	Light Duty Pulling Element (12/24 cores) FRP Rod Pulling Element Staggered Tails (48, 72, 96, 144 cores only)	2	2	FT	Feet	RI	Riser	B	Polarity B
MM	MPO (M)	MM	MPO (M)	7A1	G.657A1 MicroCable	48	48 core			3	3			PL	Plenum	C	Polarity C
MPM	MPO Premium (M)	MPM	MPO Premium (M)			72**	72 core			5	5			RIUL	Riser UL		
		XX	Open			96**	96 core			10	10			PLUL	Plenum UL		
						144**	144 core			XX	Specify			E	CPR Euroclass Eca		

\*Select connector end only if End B is different from End A

\*\* Check Availability- Contact Customer Service

\*\*\* MTP US Conec MPO Connectors Available on Request- Add suffix "-US" to the end of the PN

**Example Part Number**

MF		OM3	24		10			C
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MFOM32410C - 24Core MPO (F)-MPO (F)- OM3 50/125 MicroCable LSZH Aqua 10mtr Polarity C



**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/MPO\\_MicroCable\\_Trunk\\_Assembly](https://www.aflhyperscale.com/product/MPO_MicroCable_Trunk_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 October 19, 2018

SCAN QR FOR PRODUCT PAGE

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