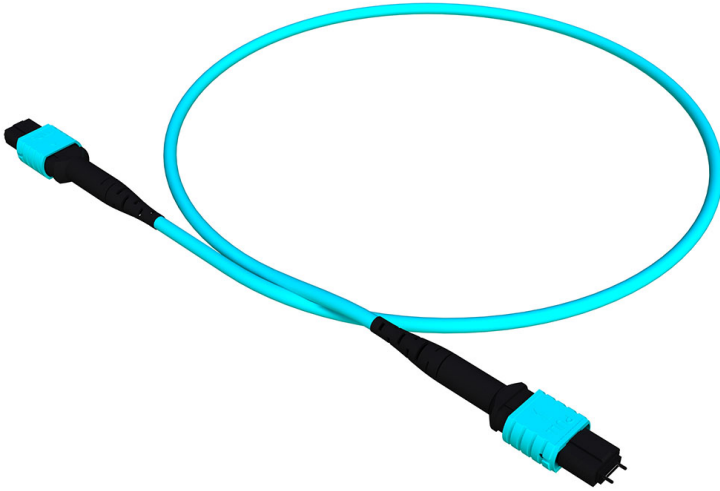


## MPO MicroCable Patch Assembly (Single Jacket 3mm OD)



MPO MicroCable Patch assemblies facilitate rapid deployment of high density cabling in data centers or other high fiber density environments reducing network installation or reconfiguration time and cost. They are typically used for patching within MDA zone or interconnect MPO active equipment ports with backbone cabling. MPO MicroCable Patch assemblies are offered as standard 12 fibers using a compact and rugged 3mm OD Single Jacket MicroCable structure. The compact cables optimizes patch cable-way use and improves the airflow. MPO MicroCable assemblies are built with highest quality components. MPO low loss Premium versions are offered featuring low insertion loss for demanding high speed networks with critical power budget requirements.

### FEATURES/BENEFITS

- OS1/2 G.657A1, OM3, OM4
- Jacket standard colors; G.657A1 yellow, OM3 and OM4 Aqua (OM4 EricaViolet Available)
- 12xFiber Ferrule MPO
- LSZH, OFNP, OFNR Cable Jacket Options
- Female (standard) and Male MPO Connectors
- Polarity A (standard), B or C
- Factory Terminated and Tested
- **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

## APPLICATIONS

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

SPECIFICATIONS

ELEMENT	CHARACTERISTIC
Fiber	OS1/OS2 G.657A1, OM3, OM4
Tail Dimensions	3 mm Tails
MPO Termination	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 Single Jacket OD Max $2.9 \pm 0.1$ mm
Crush Resistance	500N/ 100mm
Cable Tensile Strength	(Short) 200N
Cable Strength Member	Aramid
Storage Temperature	-20 ~ +60°C
Installation Temperature	-5 ~ +50°C
Operating Temperature	-20 ~ +60°C

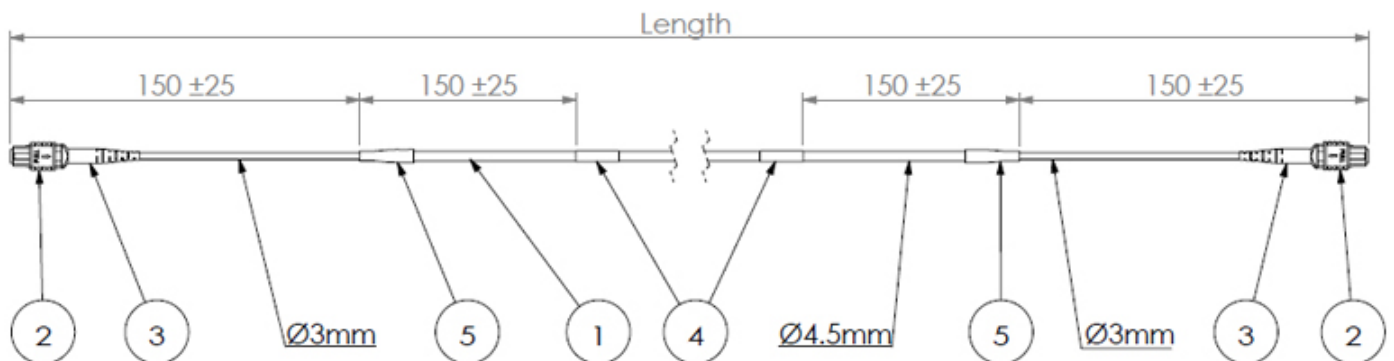
Connector Performance

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

Cable Performance

CABLED FIBRE TYPE (ISO/IEC 11801)	OS1/OS2	OM3	OM4
Attenuation Coefficient [dB/km]	$\leq 0.38$ Max (1300 nm) $\leq 0.34$ Typ (1550 nm) $\leq 0.19$ typ (1550 nm)	$\leq 0.25$ Max (850 nm) $\leq 2.7$ Typ (850 nm) $\leq 0.9$ typ (1300 nm)	$\leq 1.5$ Max (850 nm) $\leq 2.7$ Typ (850 nm) $\leq 0.9$ typ (1300 nm)
Minimum Bandwidth: Overfilled Launch [Mhz-km]	N/A	$\geq 1500$ (850 nm) $\geq 500$ (1300 nm)	$\geq 3500$ (850 nm) $\geq 500$ (1300 nm)
Minimum Bandwidth: Laser Effective Modal Bandwidth [Mhz-km]	N/A	$\geq 2000$ (850 nm)	$\geq 4700$ (850 nm)

TECHNICAL DRAWING



## 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

Code	Fiber Type	Code	Jacket Material	Color	Code	End A	End B	Polarity	Unit	Length
M	3 OM3	DQB	L LSZH	9 YELLOW	P	U MPO F	U MPO F	-A028- Polarity A	M Meters	1 1
	4 OM4		R OFNR	C AQUA		V MPO M	V MPO M	-B028- Polarity B	F Feet	2 2
	7 G.657A1		Q OFNR UL Listed	D ERIKA VIOLET			X Open	-C028- Polarity C		3 3
	8 G.657A2		P OFNP							5 5
			A OFNP UL Listed							10 10

Legacy ordering information

Connector End A		Connector End B*		Fiber Type	Fiber Count	Cable Construction	Cable Length	Length Unit	Cable Jacket Type	Polarity
MF	MPO (F)	MF	MPO (F)	OM3 OM3 50/125 MicroCable	12 12 core	P 3mm OD	1 1	Leave Blank metre	leave blank LSZH	A Polarity A
MPF	MPO Premium (F)	MPF	MPO Premium (F)	OM4 OM4 50/125 MicroCable			2 2	FT Feet	RI Riser	B Polarity B
MM	MPO (M)	MM	MPO (M)	7A1 G.657A1 MicroCable			3 3		PL Plenum	C Polarity C
MPM	MPO Premium (M)	MPM	MPO Premium (M)				5 5		RIUL Riser UL	
		XX	Open				10 10**		PLUL Plenum UL	

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

\*\* Max Recommended length 10 meters - if longer please consider double jacket Trunks 4.5mm OD

\*\*\* Check Availability- Contact Customer ServiceOD

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

Example Part Number

MF	OM3	12	P	1	RI	A
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2 Core MPO (F)-MPO (F) OM3 50/125 MicroCable 3mm OD Riser Aqua 1mtr Polarity A



SCAN QR FOR PRODUCT PAGE

- 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/microcable-assembly-3mm>
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