

MPO Trunk Assemblies

MPO 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. Built using compact and rugged MicroCable, these assemblies optimize cable-way use and improve airflow. MPO Premium connectors ensure low insertion loss for demanding high-speed networks where power budgets are critical. Assemblies are available in single mode, OM3, and OM4 fiber types and fiber counts from 12 to 144 fibers.

Features

Fiber and Cable Options

- Available in SM (OS1/2 G.657A1/A2), OM3, OM4
- Compact LSZH, OFNR, OFNP cable jackets available
- Jacket Standard Colours: SM Yellow, OM3 Aqua, OM4 Aqua (OM4 Erika Violet Available)

MPO Interface

- Female and Male MPO connectors available
- Base-8, Base-12 available (for Base-16, and Base-24 contact sales rep)
- Standards based polarity options available

Optimized Performance

- Low loss Premium MPO connectors and Bend Insensitive fiber assure low insertion losses and reduced power penalties in tight budget high-speed network environments
- 100% factory tested for proven reliability connectivity
- Manufactured in accordance with TIA 568 and IEC 61754 standards

Applications

- Data Center
- Campus
- Central Office
- Office backbone



Specifications

Connector Mating	Insertion Loss Max	Return Loss
Multimode Premium	0.35 dB	≤ -25 dB
Single-Mode Premium	0.35 dB	≤ -60 dB

Cable Specifications (12f subunits)

Fiber count	Cable diameter (mm)	Crush resistance	Cable tensile strength (installed)	Bend Radius Installed	Storage temperature	Installation Temperature	Operating Temperature	Fibers
8	7.0 ±0.2	1000N/100mm	150N	70mm	-20 ~ +70°C	0 ~ 60°C	0 ~ 60°C	OM4, SM G657A1
12	7.0 ±0.2	1000N/100mm	150N	70mm				
16	7.0 ±0.2	1000N/100mm	150N	70mm				
24	7.0 ±0.2	1000N/100mm	150N	70mm				
48	7.0 ±0.2	1000N/100mm	150N	70mm				
72	8.2 ±0.2	1000N/100mm	150N	82mm				
96	10.3 ±0.2	1000N/100mm	150N	103mm				
144	10.3 ±0.2	1000N/100mm	150N	103mm				

Cable performance

Cabled Fibre Type (ISO/IEC 11801)	SM (OS1/OS2)	OM3	OM4
Attenuation Coefficient [dB/km]	≤0.38 Max (1310 nm) ≤0.25 Max (1550 nm) ≤0.34 Typ (1310 nm) ≤0.19 Typ (1550nm)	≤ 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	≥ 1500 (850 nm) ≥ 500 (1300 nm)	≥ 3500 (850 nm) ≥ 500 (1300 nm)
Minimum Bandwidth: Laser Effective Modal Bandwidth [Mhz-km]	N/A	≥ 2000 (850 nm)	≥ 4700 (850 nm)

Ordering Information

	Description	Part Number
Base-8	AFL HS, 24 Fiber, OM4, Premium MPO (Female) to MPO (Female) Base-8 Trunk, Indoor MicroCable (Aqua), Polarity B, CPR Cca, Xm	M4DSFCCPUU-B002-MX
	AFL HS, 24 Fiber, SM, Premium MPO (Female) to MPO (Female) Base-8 Trunk, Indoor MicroCable (Yellow), Polarity B, CPR Cca, Xm	M7DSFC9PUU-B002-MX
	AFL HS, 48 Fiber, OM4, Premium MPO (Female) to MPO (Female) Base-8 Trunk, Indoor MicroCable (Aqua), Polarity B, CPR B2ca, Xm	M4EAJBCPUU-B002-MX
	AFL HS, 48 Fiber, SM, Premium MPO (Female) to MPO (Female) Base-8 Trunk, Indoor MicroCable (Yellow), Polarity B, CPR B2ca, Xm	M7EAJB9PUU-B002-MX
	AFL HS, 72 Fiber, OM4, Premium MPO (Female) to MPO (Female) Base-8 Trunk, Indoor MicroCable (Aqua), Polarity B, CPR B2ca, Xm	M4EBMBCPUU-B002-MX
	AFL HS, 72 Fiber, SM, Premium MPO (Female) to MPO (Female) Base-8 Trunk, Indoor MicroCable (Yellow), Polarity B, CPR B2ca, Xm	M7EBMB9PUU-B002-MX
	AFL HS, 96 Fiber, OM4, Premium MPO (Female) to MPO (Female) Base-8 Trunk, Indoor MicroCable (Aqua), Polarity B, CPR B2ca, Xm	M4ECPBCPUU-B002-MX
	AFL HS, 96 Fiber, SM, Premium MPO (Female) to MPO (Female) Base-8 Trunk, Indoor MicroCable (Yellow), Polarity B, CPR B2ca, Xm	M7ECPB9PUU-B002-MX
	AFL HS, 144 Fiber, OM4, Premium MPO (Female) to MPO (Female) Base-8 Trunk, Indoor MicroCable (Aqua), Polarity B, CPR B2ca, Xm	M4EDTBCPUU-B002-MX
	AFL HS, 144 Fiber, SM, Premium MPO (Female) to MPO (Female) Base-8 Trunk, Indoor MicroCable (Yellow), Polarity B, CPR B2ca, Xm	M7EDTB9PUU-B002-MX

	Description	Part Number
Base-12	AFL HS, 12 Fiber, OM4, Premium MPO (Female) to MPO (Female) Base-12 Trunk, Indoor MicroCable (Aqua), Polarity B, CPR Cca, Xm	M4DSBCCPUU-B028-MX
	AFL HS, 12 Fiber, SM, Premium MPO (Female) to MPO (Female) Base-12 Trunk, Indoor MicroCable (Yellow), Polarity B, CPR Cca, Xm	M7DSBC9PUU-B028-MX
	AFL HS, 24 Fiber, OM4, Premium MPO (Female) to MPO (Female) Base-12 Trunk, Indoor MicroCable (Aqua), Polarity B, CPR Cca, Xm	M4DSFCCPUU-B028-MX
	AFL HS, 24 Fiber, SM, Premium MPO (Female) to MPO (Female) Base-12 Trunk, Indoor MicroCable (Yellow), Polarity B, CPR Cca, Xm	M7DSFC9PUU-B028-MX
	AFL HS, 48 Fiber, OM4, Premium MPO (Female) to MPO (Female) Base-12 Trunk, Indoor MicroCable (Aqua), Polarity B, CPR B2ca, Xm	M4EAJBCPUU-B028-MX
	AFL HS, 48 Fiber, SM, Premium MPO (Female) to MPO (Female) Base-12 Trunk, Indoor MicroCable (Yellow), Polarity B, CPR B2ca, Xm	M7EAJB9PUU-B028-MX
	AFL HS, 72 Fiber, OM4, Premium MPO (Female) to MPO (Female) Base-12 Trunk, Indoor MicroCable (Aqua), Polarity B, CPR B2ca, Xm	M4EBMBCPUU-B028-MX
	AFL HS, 72 Fiber, SM, Premium MPO (Female) to MPO (Female) Base-12 Trunk, Indoor MicroCable (Yellow), Polarity B, CPR B2ca, Xm	M7EBMB9PUU-B028-MX
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	AFL HS, 144 Fiber, OM4, Premium MPO (Female) to MPO (Female) Base-12 Trunk, Indoor MicroCable (Aqua), Polarity B, CPR B2ca, Xm	M4EDTBCPUU-B028-MX
	AFL HS, 144 Fiber, SM, Premium MPO (Female) to MPO (Female) Base-12 Trunk, Indoor MicroCable (Yellow), Polarity B, CPR B2ca, Xm	M7EDTB9PUU-B028-MX

Part Number Generator

Code	Fiber Type	Fiber Count	Jacket Material	Color	Code	End A	End B	Polarity	Tails	Unit	Length
M	3 OM3	DSB 12	L LSZH	9 Yellow	M	U MPOF	U MPOF	-A Polarity A	002 Base-8 Fanout	M Meters	1 1
	4 OM4	DSF 24	E CPR Eca	C Aqua		V MPOM	V MPOM	-B Polarity B	003 Base-8 Staggered	F Feet	2 1
	7 G.657A1	EAJ 48	C CPR Cca	D Erika Violet			X Open	-C Polarity C	027 Base-12 Staggered		3 3
	8 G.657A2	EBM 72	B CPR B2ca						028 Base-12 Fan-out		5 5
		ECP 96	R OFNR								10 10
		EDT 144	Q OFNR UL Listed								x Specify
			P OFNP								
			A OFNP UL Listed								