

MPO16 Array Cord

MPO16 APC to 2MPO8 UPC, 16 Fibers, 3.0mm



Description

The MTP®/MPO-16 Cable Assemblies shall allow for rapid deployment of high-density permanent links in a single assembly for data center applications requiring quick infrastructure deployment, such as main, horizontal, and zone distribution areas. MPO16 trunk cable assemblies are factory terminated and tested to deliver verified optical performance and reliability to support all MPO16 applications including 400GSR8, 800G-SR8 as well as 800GBASE-DR8.

These ultra high bandwidth applications are used for high-speed switch to switch links, and to support artificial intelligence (AI) and machine learning (ML) applications. MPO-16 Interconnect cable assemblies shall allow for rapid deployment and breakout of parallel applications such as 400GBASE-SR8 to 2 x 200GBASE-SR4.

Features

- Choosing between male and female connectors.
- Available in assignment variants polarity A or B
- 100% tested for Insertion loss, Return Loss and end face geometry
- Provided with serial number, barcode
- All available variants can be created with the MTP configurator
- MPO Plus® is a registered trademark SENKO Advanced Components Ltd., JAPAN
- Meets and exceeds Telcordia GR-326/GR-1435
- IEC 61754-7 / TIA 604-5 / TIA/EIA-604-10

Applications

- Telecommunication network
- Data communication network
- Enterprise network
- Intrabuilding backbone
- Artificial intelligence (AI)
- Cloud computing
- Broadcasting
- Medical imaging
- High performance computing (HPC)
- 400GBASE-SR8
- 800GBASE-SR8
- 800GBASE-DR8

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Construction

Parameter			Value
Cable Construction	Number of fibers		16 Fibers
	Fiber type	OS2	Eg/125 low bend
		OM4	G50/125-OM4 low bend (IEC 60793-2-10 A1a.3)
		OM5	G50/125-OM5 low bend (IEC 60793-2-10 A1a.4)
	Cable type		3.0mm Indoor round cable
	Cable Jacket color	OS2	Yellow
		OM4	Heather Violet
		OM5	Lime Green
	Cable Jacket ratings		LSZH(Low Smoke Zero Halogen) OFNR-LSZH OFNP
Connector Types	End 'A' MPO16 Female		Multimode MPO connectors are APC Single mode MTP connectors are APC
	End 'B' MPO8 Female		Multimode MPO connectors are UPC Single mode MTP connectors are APC

Optical properties

Parameter			Value
MTP Connector Optical Performance	Insertion Loss IEC61300-3-4	Single mode	$\leq 0.30\text{dB(Low-Loss)}$
		Multimode	$\leq 0.30\text{dB(Low-Loss)}$
	Return Loss IEC61300-3-6	Single mode	$\geq 60\text{dB(APC)}$
		Multimode	$\geq 25\text{dB(UPC)}$
Cable Attenuation	Singlemode	OS2	$\leq 1.0\text{dB/km at }1310/1550\text{nm}$
	Multimode	OM4	$\leq 3.0\text{dB/km at }850\text{nm}$
		OM5	$\leq 1.0\text{dB/km at }1300\text{nm}$

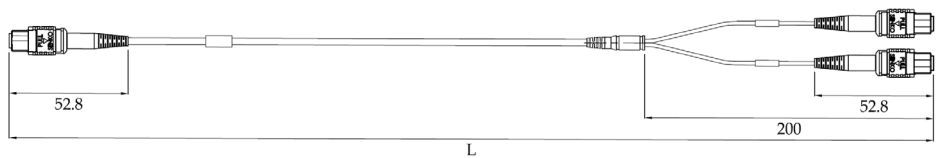
Environmental properties

Parameter		Value
Temperature	Storage Temp.	-40°C to +70°C
	Installation Temp.	-10°C to +60°C
	Operating Temp.	-10°C to +70°C

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Drawing



< Female MPO16 to Female 2MPO8, 16 Fibers, 3.0mm >

Ordering information

Part number	Description of Products	Remark
MAC-MPO-FF-OM4-12B16Y-B-XXX	MPO Array Cord, Female MPO16 APC to Female 2MPO8 UPC -OM4-Base-16-YYYY-XXX-Type B, Low-Loss	Low-Loss
MAC-MPO-FF-OM5-12B16Y-B-XXX	MPO Array Cord, Female MPO16 APC to Female 2MPO8 UPC -OM5-Base-16-YYYY-XXX-Type B, Low-Loss	
MAC-MPO-FF-SM-12B16Y-B-XXX	MPO Array Cord, Female MPO16 APC to Female 2MPO8 APC -SM-Base-16-YYYY-XXX-Type B, Low-Loss	

- Y Cable Jacket ratings : Z(LSZH), R(OFNR-LSZH), P(OFNP)
- XXX Cable length : 003 (3m), 005 (5m), 010 (10m)