MPO Jumpers Datasheet

IDEAL FOR DATA CENTER HIGH DENSITY CABLING SYSTEM

Designed for data center applications requiring quick infrastructure deployment such as main, horizontal, and zone distribution areas.



MPO Jumpers

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

Standards Compliance

- RoHS, CE (EN 50575 CPR) and ISO9001 Compliant
- EIA/TIA, Telecocordia GR-326-CORE Standards
- IEC61754-7
- TIA 605-4 (FOCIS 5)
- YD/T1272.5

Features

- YOFC Maxband® fiber
- OS2, OM4 available
- 0.35dB elite low loss connector
- Factory terminated and tested
- Allow easy migration from 10GbE to 40GbE or 100GbE
- Pulling eyes are provided as an option to protect the fiber ends during installation

Technical Specification

Construction	Description
Fiber Count	8/12 Fibers
Fiber Mode	OS2 9/125μm, OM4 50/125μm
Fiber Brand	YOFC Maxband® fiber
Connector Type	MPO Female, Male
Polarity	Type A, Type B, Type C
Cable Jacket Ratings	Plenum (OFNP) Low Smoke Zero Halogen (LSZH)
Cable Type	Jumper

Color Codes	MPO
Cable Jackets	OS2: Yellow OM4: Magenta
Connectors	OS2: Green OM4: Aqua
Boots	Black

Technical Specification

Physical Properties	Description
Cable Diameter	3.0mm
Breakout Length	/
Minimum Bend Radius	OS2: 10mm OM4: 7.5mm
Operating Temperature	Plenum (OFNP): -10 to 60°C (14 to 140°F) LSZH: -10 to 70°C (14 to 158°F)
Storage Temperature	Plenum (OFNP): -10 to 70°C (14 to 158°F) LSZH: -20 to 70°C (-4 to 158°F)

Optical Properties	Description
Attenuation (dB/km)	OS2: ≤0.32 at 1310nm, ≤0.18 at 1550nm OM4: ≤2.3 at 850nm, ≤0.6 at 1300nm
Insertion Loss (dB)	≤0.35
Return Loss (dB)	OS2: ≥60 OM4: ≥20
Wavelength (nm)	OS2: 1310/1550 OM4: 850/1300

Transmission Distance

Multimode fiber backbone cabling distances for 10 Gbps, 40 Gbps, and 100 Gbps applications.

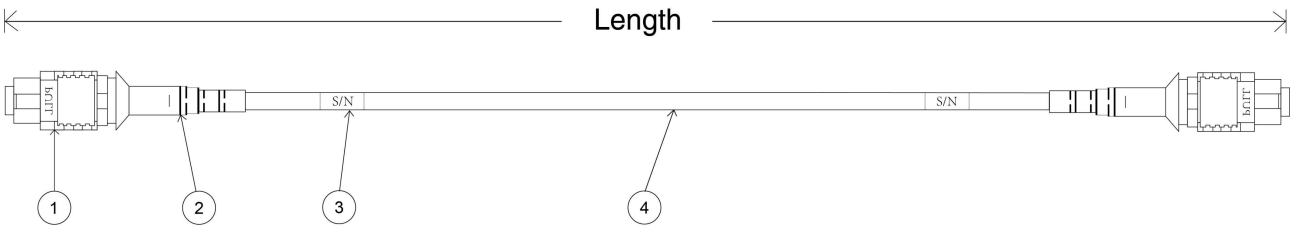
Backbone Application	Standard Specified Max. Distance		
	OM3	OM4	OM5
10GBASE-SR (850nm)	300m (984ft)	400m (1312ft)	400m (1312ft)
40GBASE-SR4	100m (328ft)	150m (492ft)	150m (492ft)
40GBiDi	100m (328ft)	150m (492ft)	200m (689ft)
40GBASE-eSR4	300m (984ft)	400m (1312ft)	400m (1312ft)
40G SWDM4	240m (787ft)	350m (1148ft)	440m (1444ft)
100GBASE-SR10	100m (328ft)	150m (492ft)	150m (492ft)
100GBASE-SR4	70m (230ft)	100m (328ft)	100m (328ft)
100GBASE-eSR4	200m (689ft)	300m (984ft)	300m (984ft)
100G SWDM4	75m (246ft)	100m (328ft)	150m (492ft)

Direct Interconnect

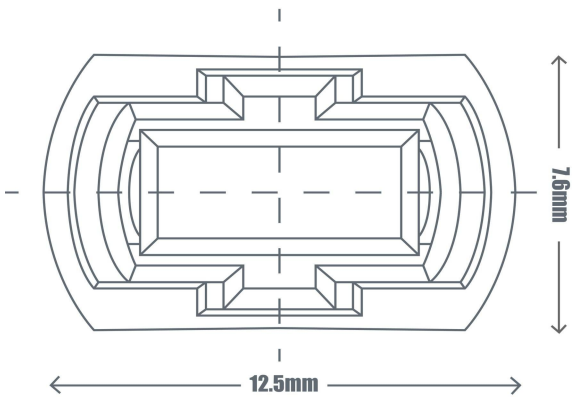
For use in connecting directly into QSFP+, QSFP 28, CFP, CXP, QSFP-DD or OSFP transceivers.

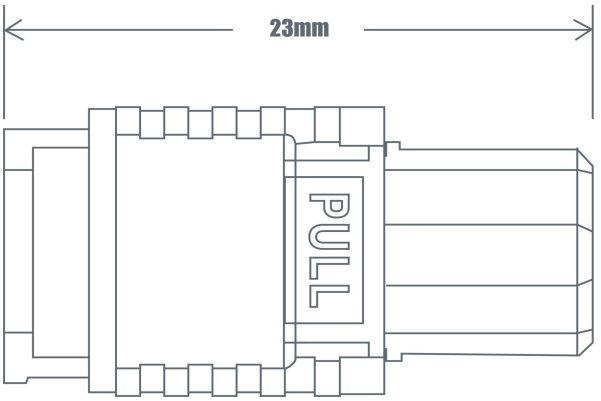
Transceiver	Form Factor	Media	Transmission Distance	Number of Fibers	Connector
QSFP-SR4-40G	QSFP+	MMF	100m (OM3), 150m (OM4)	8	MPO-12
QSFP-PIR4-40G	QSFP+	SMF	2km (OS2)	8	MPO-12
QSFP-CSR4-40G	QSFP+	MMF	400m (OM4)	8	MPO-12
QSFP-PLR4-40G	QSFP+	SMF	10km (OS2)	8	MPO-12
QSFP28-SR4-100G	QSFP28	MMF	70m (OM3), 100m (OM4)	8	MPO-12
QSFP28-PIR4-100G	QSFP28	SMF	500m (OS2)	8	MPO-12
QSFP28-ESR4-100G	QSFP28	MMF	200m (OM3), 300m (OM4)	8	MPO-12
QSFP28-PSM4-100G	QSFP28	SMF	2km (OS2)	8	MPO-12
Q28-100/112G-SR4	QSFP28	MMF	100m (OM4)	8	MPO-12
QSFP28-ISR4-100G	QSFP28	MMF	70m (OM3), 100m (OM4)	8	MPO-12
CFP-SR10-100G	CFP	MMF	100m (OM3), 150m (OM4)	20	MPO-24
CXP-SR10-100G	CXP	MMF	100m (OM3), 150m (OM4)	20	MPO-24
QDD-DR4-400G-Si	QSFP-DD	SMF	500m (OS2)	8	MPO-12
QSFPDD-PLR4-400G	QSFP-DD	SMF	10km (OS2)	8	MPO-12
QSFPDD-XDR4-400G	QSFP-DD	SMF	2km (OS2)	8	MPO-12
OSFP800-XDR8-B2	OSFP	SMF	2km (OS2)	16	Dual MPO-12
OSFP800-PLR8-B2	OSFP	SMF	10km (OS2)	8	Dual MPO-12

Technical Drawing



① MPO Connector ② Connector Boot ③ Serial Number Label ④ Cable Jacket 3.0mm OD





Fiber Optic Cleaning

US Conec IBC™ MPO Connectors Cleaner



Characteristics

- For cleaning ferrules pinned or non-pinned.
- Designed for cleaning the ferrule end-faces of MPO connectors.
- Narrow design reaches tightly spaced MPO adapters.
- Cost effective tool for cleaning fiber end-faces without the use of alcohol.

NEOCLEAN®-R2 Fiber Optic Cassette Cleaner



Characteristics

- Effective on a variety of contaminates including dust and oils.
- Widely used in optical network maintenance, engineering or equipment
- Cassette tapes are available for replacement after 400+ cleaning operations to ensure low cleaning cost.

ID	Description
#106327	US Conec IBC™ Brand Cleaner MPO II, for 8/12/24 Fibers MPO Connectors (525+ Times)
#91449	NEOCLEAN®-R2 Fiber Optic Cassette Cleaner for SC/FC/ST/LC/MPO Connectors (400+ Times)

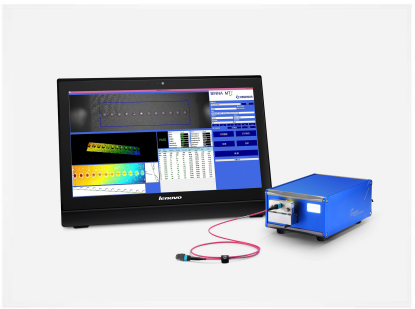
Test Center

Comprehensive performance testing system ensures more secure operation and keeps more stable and reliable data connection. 3D interferometer provides verification of MPO polishing process, and making all parameters of the polished MT ferrule complies and exceeds industry standards. Clean optical connectors are paramount in providing a reliable, high-performance fiber optic infrastructure.

Professional Test Equipment



Test Assured Program



3D Interferometer Test



End-Face Inspection



Test Report of IL & RL