

MPO Breakout Cable Datasheet

IDEAL FOR DATA CENTER HIGH DENSITY CABLING SYSTEM

Designed for Storage Area Network (SAN), Local Area Network (LAN) switch, Equipment Distribution Area (EDA) patch field applications.



MPO Breakout Cable

MPO breakout assemblies are used in parallel optics and duplex transmission cross connect systems to increase cable density between switch and server cabinets. Designed for high-density fiber patching in data centers, they ensure peak performance throughout your local area network. Allow for rapid deployment of high-density, multi-port patch field connectivity for Storage Area Network (SAN) applications.

Standards Compliance

- RoHS, CE (EN 50575 CPR) and ISO9001 Compliant
- IEC61754-7
- TIA 605-4 (FOCIS 5)
- YD/T1272.5

Features

- Corning Clearcurve® multimode fiber,
 SMF-28® Ultra optical fiber
- MPO female/male, LC, SC, FC, ST connectors available
- OM4, OM3, OS2 available
- 0.35dB elite low loss connector
- Factory terminated and tested
- 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	Single mode: OS2 9/125μm Multimode: OM4 50/125μm, OM3 50/125μm
Glass Fiber	Corning ClearCurve® multimode fiber SMF-28® Ultra optical fiber
Connector A	MPO Female, Male
Connector B	LC, SC, FC, ST
Polarity	Type A, Type B
Cable Jacket	Low Smoke Zero Halogen (LSZH) Plenum (OFNP)

Color Codes	МРО	LC
Cable Jackets	OS2: Yellow OM4: Magenta OM3: Aqua	OS2: Yellow OM4: Magenta OM3: Aqua
Connectors	OS2: Green OM4/OM3: Aqua	Single Mode: UPC Blue, APC Green Multimode: Beige
Boots	Black	Single Mode: UPC Blue, APC Green Multimode: Beige

Riser (PVC)

Physical Properties	Description
Cable Diameter	3.0mm
Breakout Leg	Duplex: 2.0mm Simplex: 0.9/2.0mm
Breakout Length	0.3/0.5m Stagger 1/2/3/4
Minimum Bend Radius	Single Mode: 10.0mm Multimode: 7.5mm
Operating Temperature	-10°C to 70°C
Storage Temperature	-40°C to 85°C



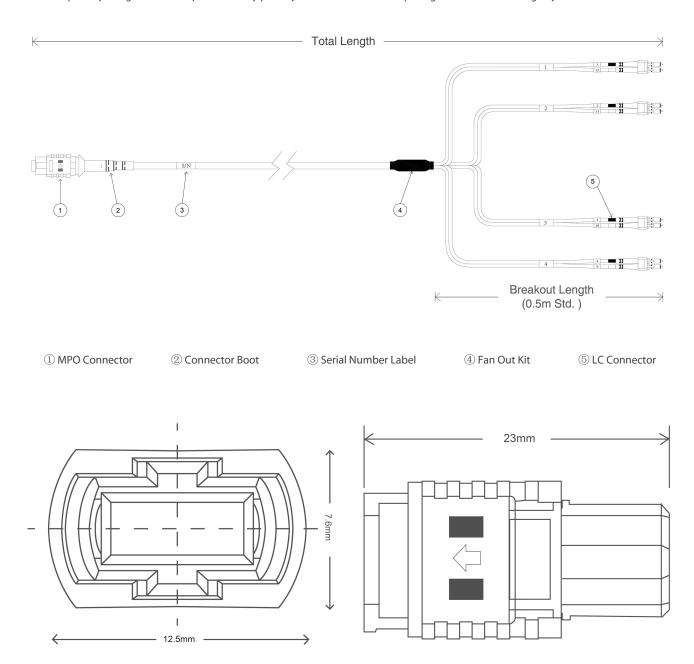
Technical Specification

Construction	Descr	iption
Wavelength (nm)	Single Mode: 1310/1550 Multimode: 850/1300	
Transmission Distance	OM4: 150m at 40/100G, 400m at 10G OM3: 100m at 40/100G, 300m at 10G	
Connector	МРО	
Fiber Mode	Single Mode	Multimode
Attenuation (dB/km)	≤ 0.32 at 1310 nm ≤ 0.18 at 1550 nm	≤ 2.3 at 850 nm ≤ 0.6 at 1300 nm
Insertion Loss (dB)	≤ 0.35	≤ 0.35
Return Loss (dB)	UPC: ≥ 50, APC: ≥ 60	UPC: ≥ 20
Connector	LC/SC/FC/ST	
Fiber Mode	Single Mode	Multimode
Insertion Loss (dB)	UPC: ≤ 0.2, APC: ≤ 0.3	UPC: ≤ 0.2
Return Loss (dB)	UPC: ≥ 50, APC: ≥ 60	UPC: ≥ 30



Technical Drawing

The MPO breakout cable consists of MPO ultra low IL connector and LC connectors. The flat clip design of LC connectors allows the cable is suitable to be used in high-density fiber patching in data centers which need space saving and reduce cable management troubles. Reverse-polarity design allows for quick and easy polarity conversion without exposing the fibers or needing any tools.





Fiber Optic Cleaning

NEOCLEAN-M One-Push Cleaner



Characteristics

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

CLE-BOX Fiber Optic Cassette Cleaner

#39697



Characteristics

- Made of non-alcohol superfine fiber ideal for fiber optic cleaning.
- Widely used in optical network maintenance, engineering or equipment.
- Cassette tapes are available for replacement after 500+ cleaning operations to ensure low cleaning cost.

ID	Description

NEOCLEAN-M One-Push Cleaner for MPO/MTP Connector (600 cleans)



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



Hot Products

ID	Description
#80244	1m (3ft) MPO Female to LC, 8 Fibers OM3, Type B, Elite, LSZH
#80245	2m (7ft) MPO Female to LC, 8 Fibers OM3, Type B, Elite, LSZH
#80240	1m (3ft) MPO Female to LC, 8 Fibers OS2, Type B, Elite, LSZH
#80241	2m (7ft) MPO Female to LC, 8 Fibers OS2, Type B, Elite, LSZH









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