MTP®-16 Cables Datasheet

IDEAL FOR 400G HIGH SPEED NETWORK CONNECTION



MTP®-16 Cables

MTP®-16 cable is designed for 400G QSFP-DD SR8 optics direct connection and supporting 400G transmission for Hyperscale Data Center. With US Conec MTP® connectors and Corning Clearcurve fiber, it is optimized for high-density fiber patching in data centers which need space saving and reduce cable management troubles.

Standards Compliance

- RoHS, CE (EN 50575 CPR), ISO9001 and WEEE Compliant
- Qualified to TIA-568.3-D
- Standards Compliance TIA 604-18
- Standards Compliance IEC 61754-7-3; 61754-7-4

Features

- US Conec MTP® connector
- 0.35dB ultra low insertion loss
- Corning Clearcurve® multimode fiber
- 7.5mm minimum bend radius
- A unique offset keying feature is designed into the connector
- Factory terminated and tested

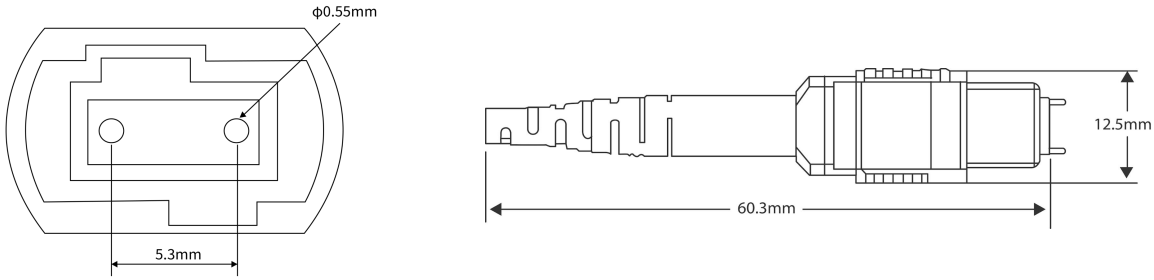
Technical Specification

Construction	16F MTP® Trunk Cable	16F MTP®-LC Harness Cable	32F MTP® Trunk Cable
Fiber Count	16 Fibers (MTP®-16)	16 Fibers (MTP®-16)	32 Fibers (MTP®-16)
Fiber Mode	OM4 50/125μm		
Glass Fiber	Corning ClearCurve® multimode fiber		
Connector A	US Conec MTP® Female	US Conec MTP® Female	US Conec MTP® Female
Connector B	US Conec MTP® Female	LC Duplex	US Conec MTP® Female
Polish Type	APC to APC	APC to UPC	APC to APC
Cable Jacket	Plenum (OFNP)		
Trunk Diameter	3.0mm	3.0mm	3.5mm
Fan-Out Diameter	-	2.0mm	-
Minimum Bend Radius	7.5mm		
Operating Temperature	-10°C to +70°C		
Storage Temperature	-40°C to +85°C		

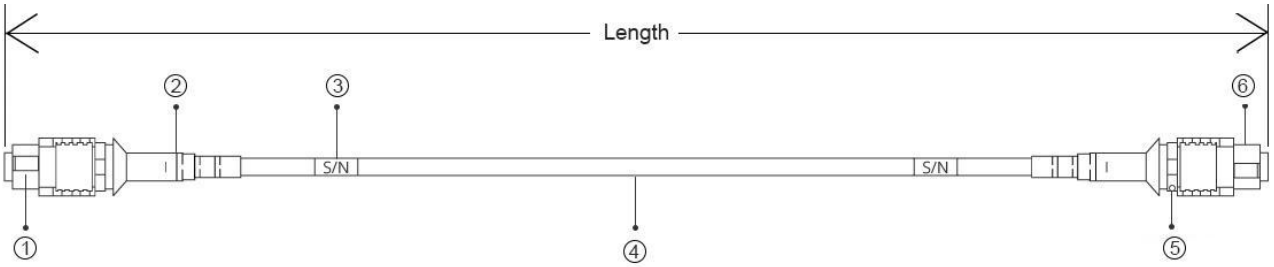
Optical Properties	Description
Wavelength (nm)	850/1300
Attenuation (dB/km)	≤2.3 at 850nm, ≤0.6 at 1300nm
Insertion Loss (dB)	MTP®: ≤0.35 (0.15 Typ.); LC: ≤0.2
Return Loss (dB)	MTP®: ≥20; LC: ≥30
Transmission Distance	100m at 400G

Product Specifications

I. Technical Drawing

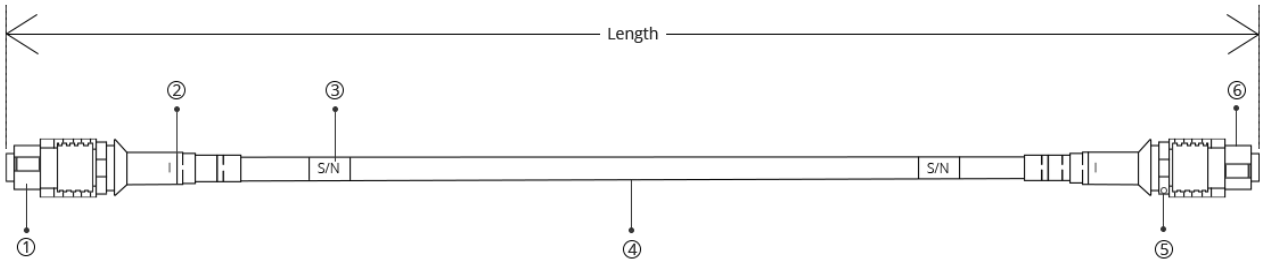


MTP®-16 Connector



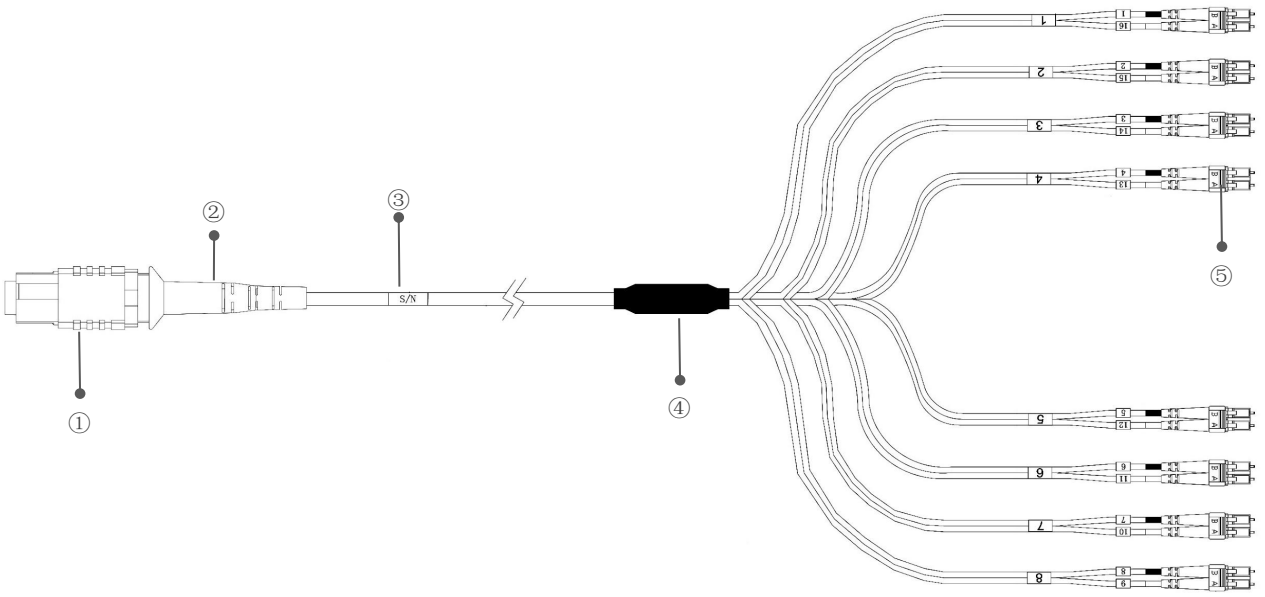
① Key ② Connector Boot ③ Serial Number Label ④ Cable Jacket 3.0mm OD ⑤ White Dot ⑥ MTP® Connector

16 Fibers MTP® Trunk Cable



① Key ② Connector Boot ③ Serial Number Label ④ Cable Jacket 3.5mm OD ⑤ White Dot ⑥ MTP® Connector

32 Fibers MTP® Trunk Cable

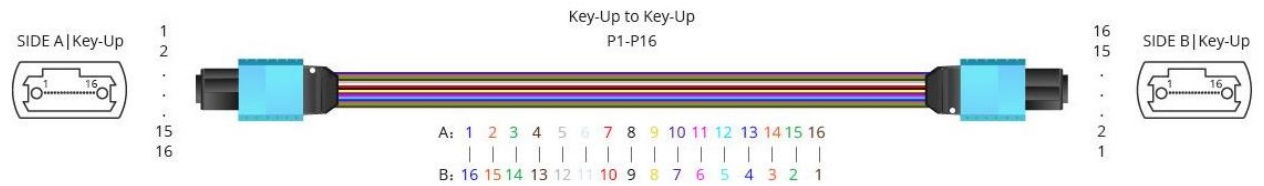


① MTP® Connector ② Connector Boot ③ Serial Number Label ④ Fan Out Kit ⑤ LC Connector

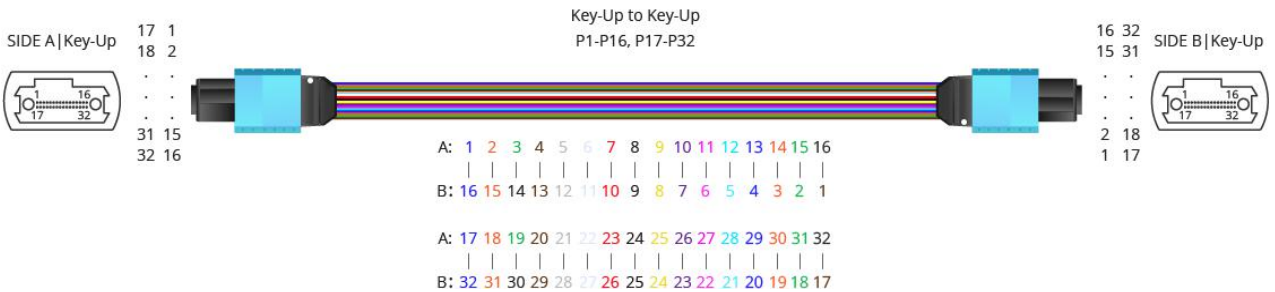
16 Fibers MTP®-LC Breakout Cable

II. Inner Line Sequence

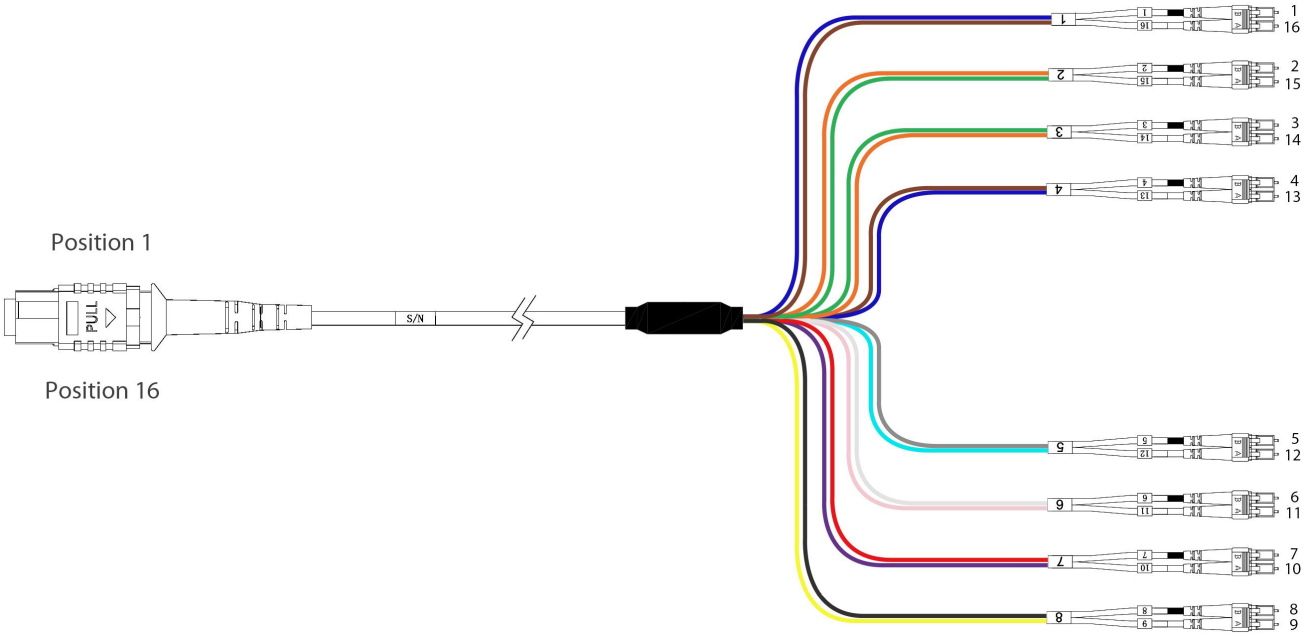
Utilizing the same external footprint as the existing traditional 12-fiber MT ferrule, the MTP®-16 consists of a US Conec MT Elite ferrule with 16 fibers in single row, leveraging all the proven MT Elite ferrule technology in a higher-density format. A unique offset keying feature is designed into the connector to ensure proper mating without inadvertently connecting 16-fiber hardware with standard MPO-compliant hardware.



16 Fibers MTP® Trunk Cable



32 Fibers MTP® Trunk Cable



16 Fibers MTP®-LC Harness Cable

Fiber Optic Cleaning and Application

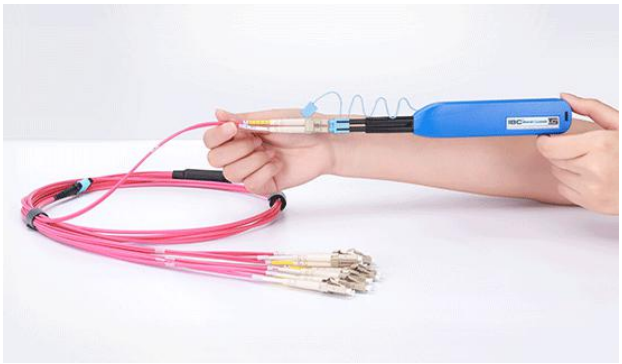
US Conec IBC™ MPO Connectors Cleaner



Characteristics

- For cleaning ferrules pinned or non-pinned.
- Narrow design reaches tightly spaced MTP®/MPO adapters.
- The cleaner is capable of cleaning flat (UPC) or angled (APC) MT-16 ferrules.

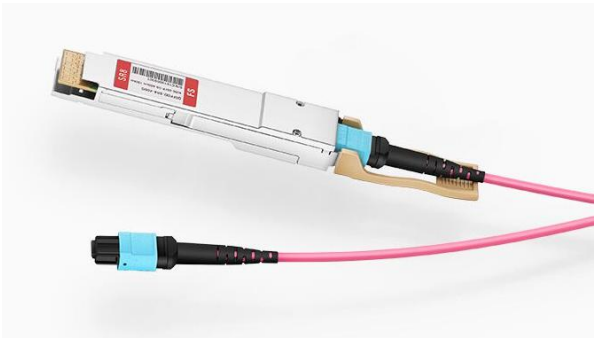
US Conec IBC™ LC Duplex Connectors Cleaner



Characteristics

- Capable of cleaning 2 connectors at once, Duplex LC.
- Widely used in optical network maintenance, engineering or equipment.
- The cleaner is capable of cleaning flat (UPC) or angled (APC) 1.25mm ferrules.

Compatible with 400GBASE-SR8 QSFP-DD Transceivers



Characteristics

- Matching 400G QSFP-DD SR8 fiber optics for 400G high speed transmission.
- The new keying design in a higher-density format is standardied by TIA and IEC.

Hot Products

ID	Description
#93744	1m (3ft) MTP® APC Female, 16F OM4 , for 400G Network Connection, Plenum (OFNP)
#93745	2m (7ft) MTP® APC Female, 16F OM4 , for 400G Network Connection, Plenum (OFNP)
#93746	3m (10ft) MTP® APC Female, 16F OM4 , for 400G Network Connection, Plenum (OFNP)
#93747	5m (16ft) MTP® APC Female, 16F OM4 , for 400G Network Connection, Plenum (OFNP)
#93748	10m (33ft) MTP® APC Female, 16F OM4 , for 400G Network Connection, Plenum (OFNP)
#118108	1m (3ft) MTP® APC Female to LC UPC Duplex, 16F OM4, for 400G Network Connection, Plenum (OFNP)
#118109	2m (7ft) MTP® APC Female to LC UPC Duplex, 16F OM4, for 400G Network Connection, Plenum (OFNP)
#118110	3m (10ft) MTP® APC Female to LC UPC Duplex, 16F OM4, for 400G Network Connection, Plenum (OFNP)
#118111	5m (16ft) MTP® APC Female to LC UPC Duplex, 16F OM4, for 400G Network Connection, Plenum (OFNP)
#118112	10m (33ft) MTP® APC Female to LC UPC Duplex, 16F OM4, for 400G Network Connection, Plenum (OFNP)
#132843	Customized 16-32 Fibers MTP®-16 OM4 Multimode Elite Trunk Cable, Plenum (OFNP)

Matching Products

ID	Description
#39721	NEOCLEAN®-E LC/MU 1.25mm Pen One-Push Cleaner (750+ Times)
#39697	NEOCLEAN®-M MTP/MPO-8/12/24 One-Push Cleaner (600+ Times)
#106397	US Conec IBC™ Brand Cleaner MTP®-16, for 16 Fibers MPO Connectors (525+ Times)
#106398	US Conec IBC™ Brand Cleaner LC², for LC Duplex Connectors (525+ Times)
#91449	NEOCLEAN®-R2 Fiber Optic Cassette Cleaner for SC/FC/ST/LC/MPO Connectors (400+ Times)
#106398	US Conec IBC™ Brand Cleaner LC², for LC Duplex Connectors (525+ Times)
#93264	Generic Compatible 400GBASE-SR8 QSFP-DD PAM4 850nm 100m DOM Optical Transceiver Module