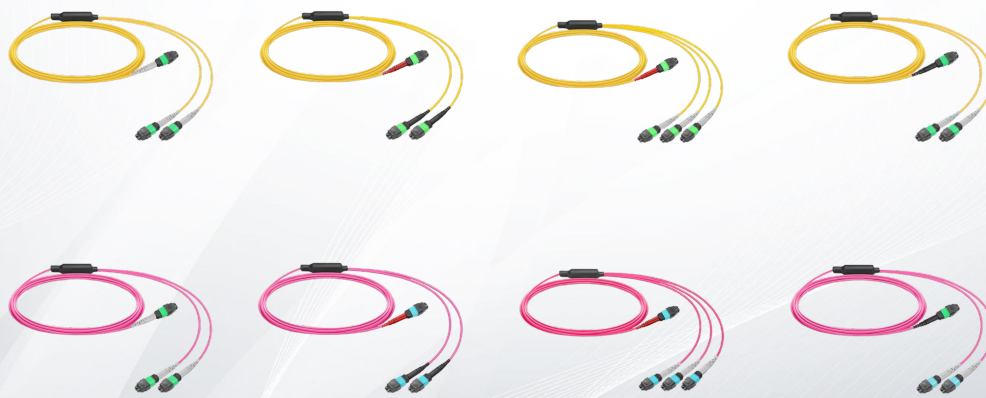


MTP®/MPO Breakout Cables

IDEAL FOR DATA CENTER HIGH DENSITY CABLING SYSTEM



MTP®/MPO Breakout Cables

MTP® breakout cable is designed to provide a more flexible multi-fiber cabling system based on MTP® products. Unlike MTP® harness cable, MTP® breakout cables are terminated with MTP® connectors on both ends, can provide more possibilities for the existing 8/16/24 fiber cabling system.

Note: The product's polarity is not defined, but the common line sequence type can refer to the Datasheet. Meanwhile, you can contact your Account Manager to customize other line sequences.

Standards Compliance

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

Features

- US Conec MTP® Connector with Optimal 0.35dB Low IL
- Bend Insensitive Fiber with 7.5mm Min. Bend Radius
- G.657.A1 with 10mm Min. Bend Radius
- Available in OFNP, LSZH and OFNR/LSZH Fire Rating
- Factory Terminated and Tested

Technical Specification

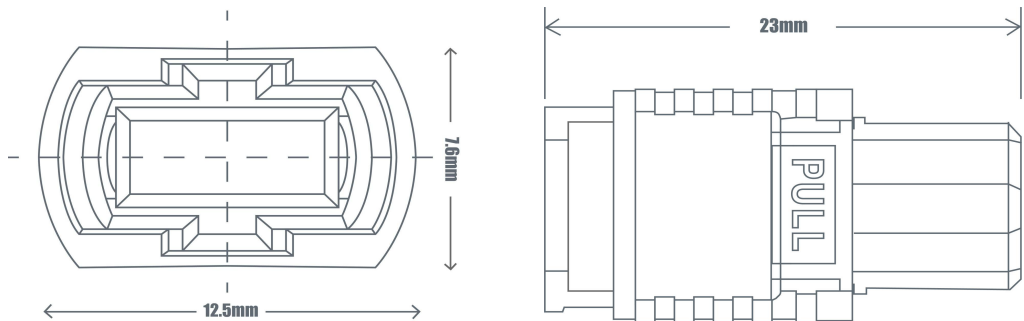
Construction	Description
Fiber Count	8/16/24 Fibers
Fiber Mode	Single Mode: OS2 9/125μm Multimode: OM4/OM3 50/125μm
Glass Fiber	OS2: G.657.A1 OM4/OM3: Bend Insensitive Fiber
Connector Type	MTP® Female/Male
Connector Brand	US Conec MTP®
Connector Keyway	Up to Down
Cable Jacke	Plenum (OFNP) LSZH Dual Rated (OFNR/LSZH)
Cable Type	Bunch/Ribbon
Color Codes	MTP®
Cable Jacket	OS2: Yellow OM4: Magenta OM3: Aqua
Housing	OS2: Green/Aqua OM4/OM3: Aqua/Green
Boot	MTP-4/8: Gray MTP-12/16: Black MTP-24: Red

Technical Specification

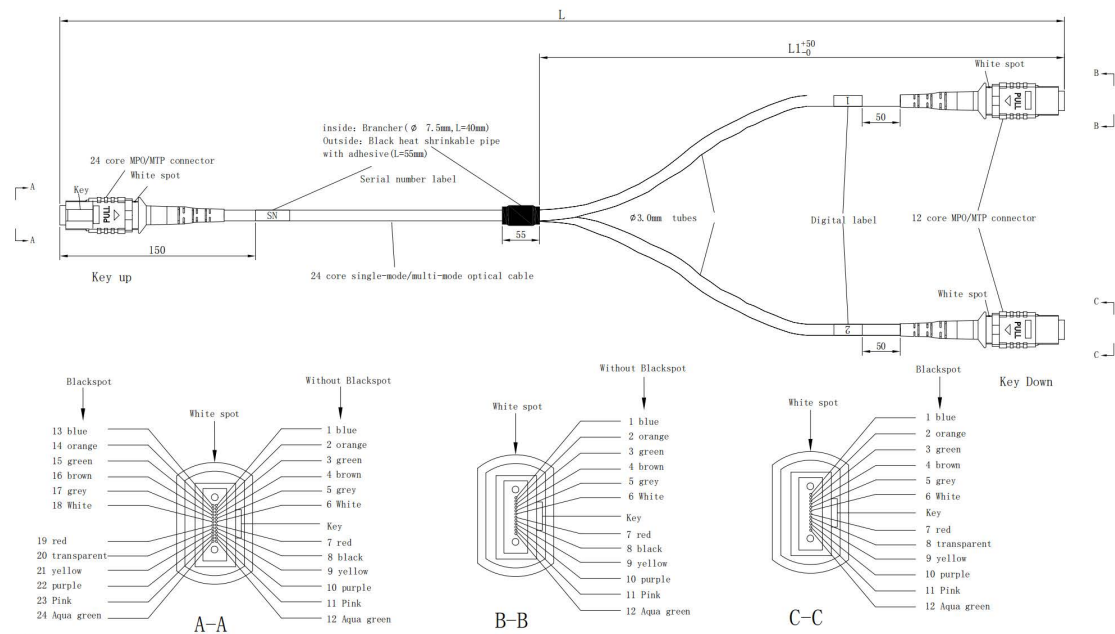
Physical Properties	Description
Cable Diameter	3.0mm
Breakout Length	8 Fibers: All Length-0.2m 16/24 Fibers: 0.5m
Minimum Bend Radius	OS2: 10.0mm OM4/OM3: 7.5mm
Operating Temperature	Plenum (OFNP)/Dual Rated (OFNR/LSZH): -10 to 60°C (14 to 140°F) LSZH: -10 to 70°C (14 to 158°F)
Storage Temperature	Plenum (OFNP)/Dual Rated (OFNR/LSZH): -10 to 70°C (14 to 158°F) LSZH: -20 to 70°C (-4 to 158°F)

Optical Properties	Description
Attenuation (dB/km)	OS2: ≤0.35 at 1310nm, ≤0.21 at 1550nm OM4/OM3: ≤2.3 at 850nm, ≤0.6 at 1300nm
Insertion Loss (dB)	Elite: ≤0.35 Standard: ≤0.75/0.6 (OS2/OM4)
Return Loss (dB)	OS2: ≥60 OM4/OM3: UPC≥20/27, APC≥45
Wavelength (nm)	OS2: 1310/1550 OM4/OM3: 850/1300

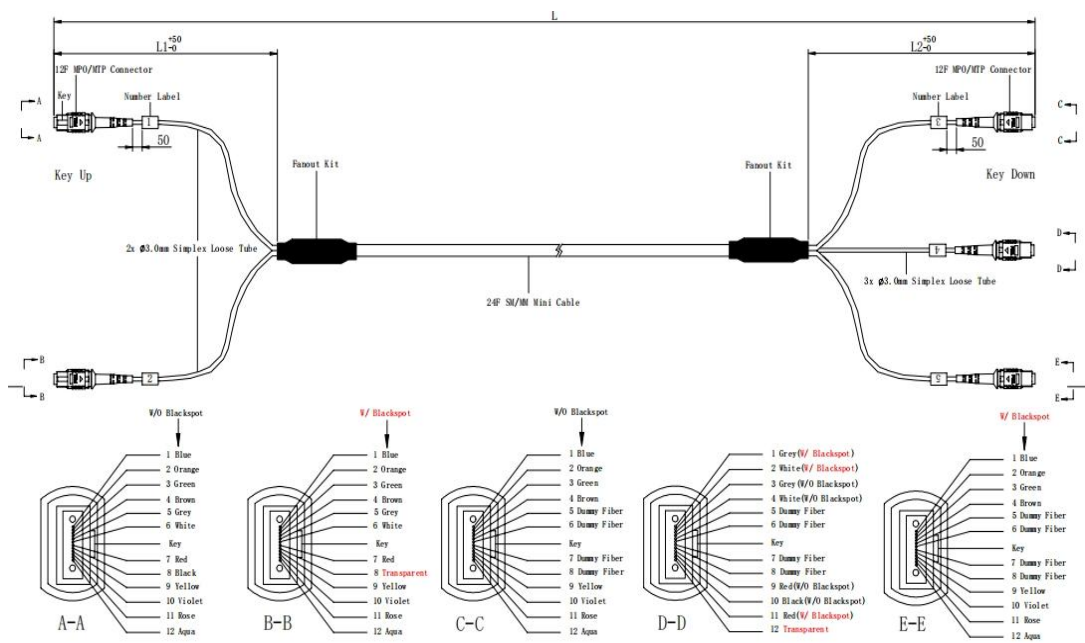
Technical Drawing



MTP-24 to 2x MTP-12



2x MTP-12 to 3x MTP-8



MTP-24 to 3x MTP-8

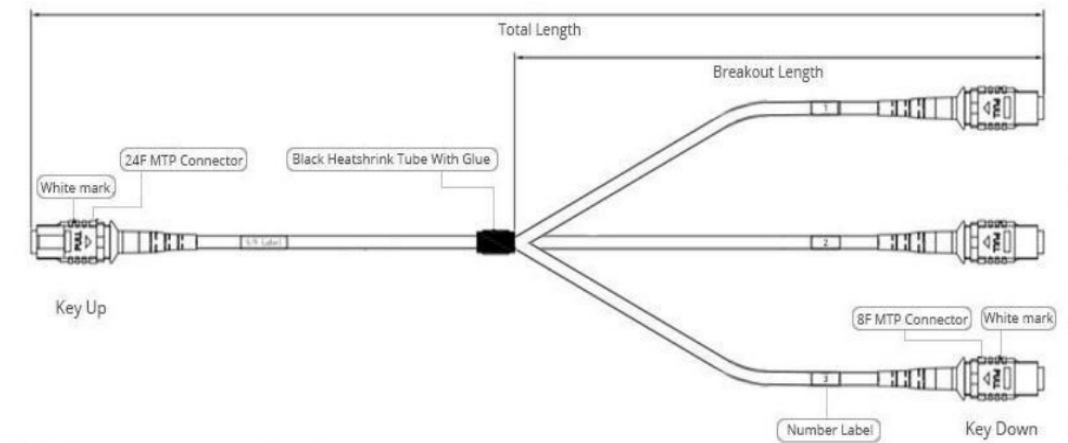


Figure 1: MTP-24 to 3x MTP-8 Breakout Cable Assembly

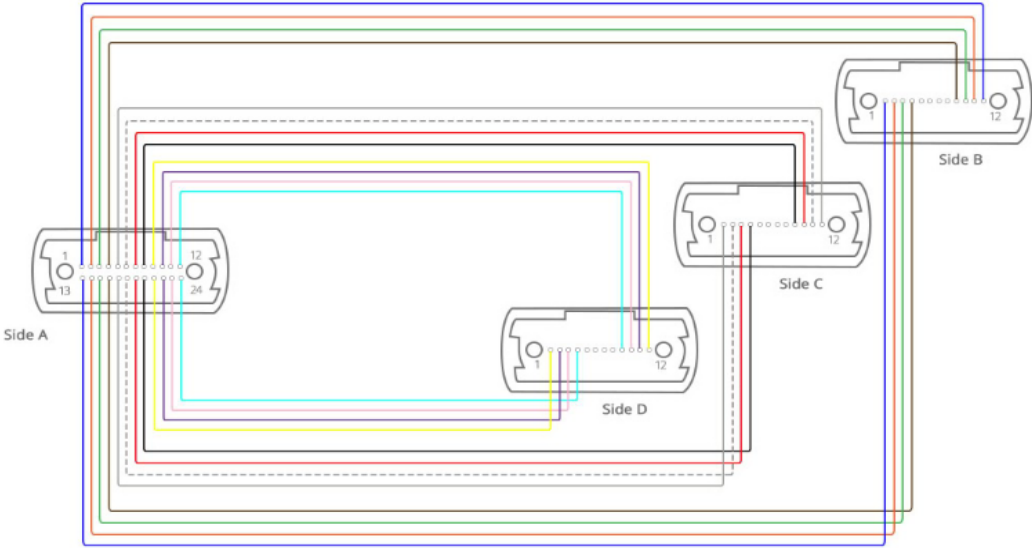


Figure 2: MTP-24 to 3x MTP-8 Breakout Cable Internal Wiring Connections

Pin No.	Fiber Color	Fiber Color	Pin No.	Fiber Color	Pin No.	Fiber Color	Pin No.	Fiber Color
12	AQUA	AQUA	24	AQUA	12	-A1	12	-A5
11	PINK	PINK	23	PINK	11	-A2	11	-A6
10	PURPLE	PURPLE	22	PURPLE	10	-A3	10	-A7
9	YELLOW	YELLOW	21	YELLOW	9	-A4	9	-A8
8	BLACK	BLACK	20	BLACK	8	Not Used	8	Not Used
7	RED	RED	19	RED	7	Not Used	7	Not Used
6	WHITE	WHITE	18	WHITE	6	Not Used	6	Not Used
5	GREY	GREY	17	GREY	5	Not Used	5	Not Used
4	BROWN	BROWN	16	BROWN	4	-A16	4	-A20
3	GREEN	GREEN	15	GREEN	3	-A15	3	-A19
2	ORANGE	ORANGE	14	ORANGE	2	-A14	2	-A18
1	BLUE	BLUE	13	BLUE	1	-A13	1	-A17

Side A
MTP-24 Connector

Fiber Color	Pin No.
BLUE	12 -A1
ORANGE	11 -A2
RED	10 -A3
BROWN	9 -A4
Not Used	8
Not Used	7
Not Used	6
Not Used	5
Not Used	4 -A16
GREEN	3 -A15
ORANGE	2 -A14
BLUE	1 -A13

Side B
MTP-8 Breakout Connector

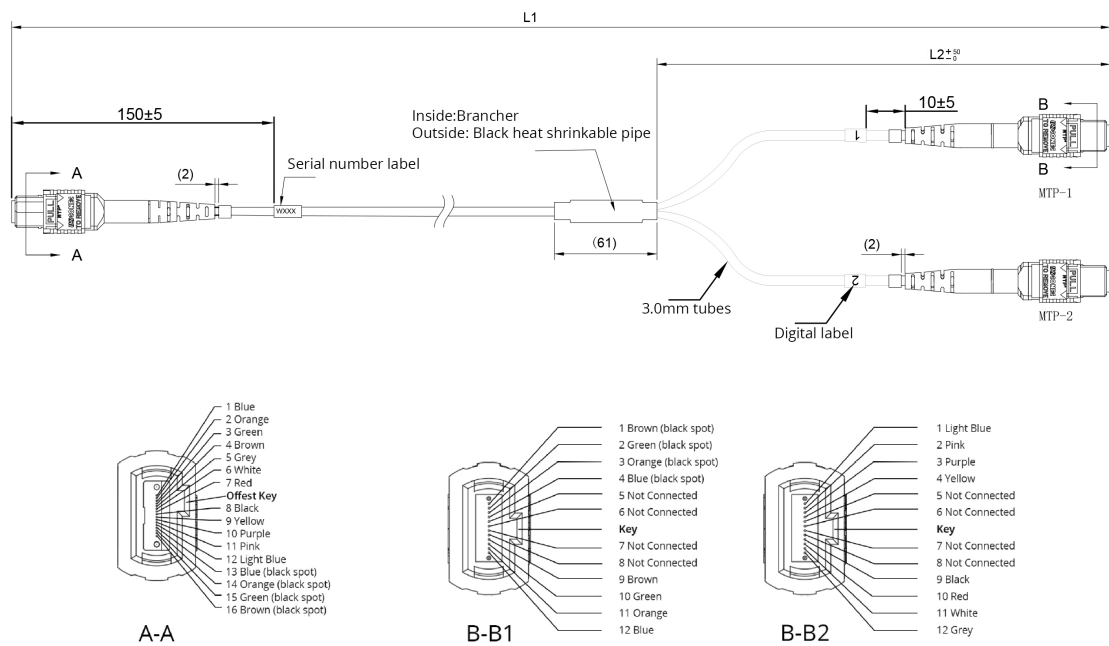
Fiber Color	Pin No.
GREY	12 -A5
WHITE	11 -A6
RED	10 -A7
BLACK	9 -A8
Not Used	8
Not Used	7
Not Used	6
Not Used	5
Not Used	4 -A20
RED	3 -A19
WHITE	2 -A18
GREY	1 -A17

Side C
MTP-8 Breakout Connector

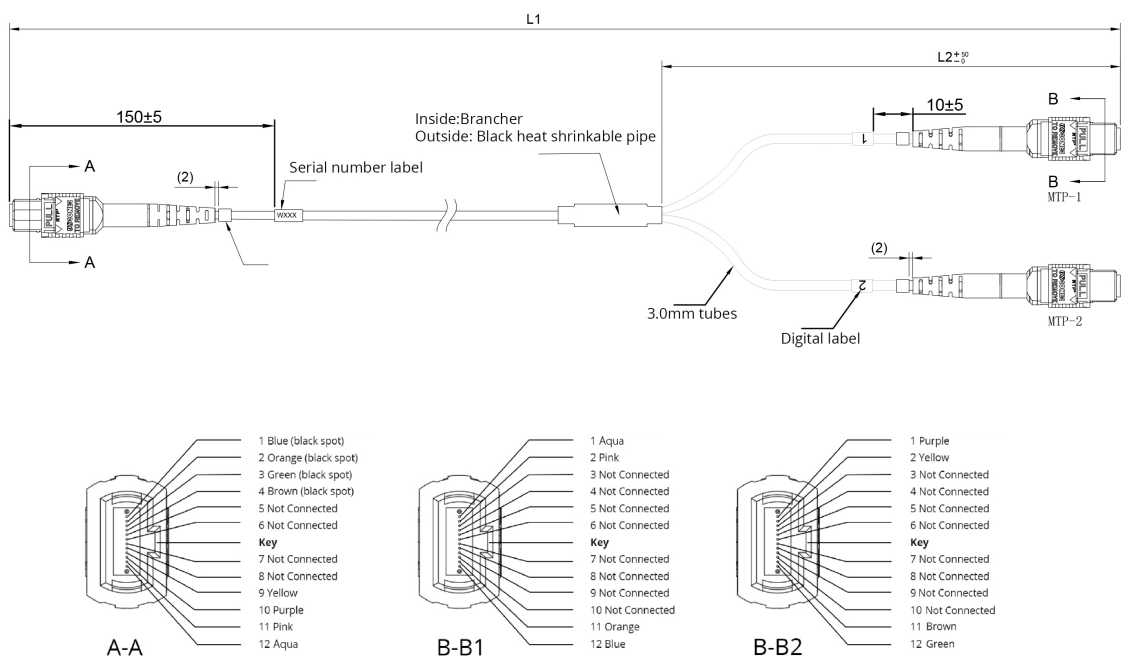
Fiber Color	Pin No.
YELLOW	12 -A9
PURPLE	11 -A10
PINK	10 -A11
AQUA	9 -A12
Not Used	8
Not Used	7
Not Used	6
Not Used	5
Not Used	4 -A24
PINK	3 -A23
PURPLE	2 -A22
YELLOW	1 -A21

Side D
MTP-8 Breakout Connector

MTP-16 to 2x MTP-8



MTP-12 to 2x MTP-4



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 MTP®/MPO connectors.
- Narrow design reaches tightly spaced MTP®/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 contaminants 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)
#106397	US Conec IBC™ Brand Cleaner MTP®-16, for 16 Fibers MPO Connectors (525+ Times)
#91449	NEOCLEAN®-R2 Fiber Optic Cassette Cleaner for SC/FC/ST/LC/MPO Connectors (400+ Times)

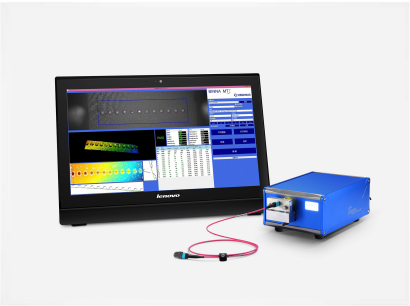
Test Center

Comprehensive performance testing system ensures more secure operation and keeps more stable and reliable data connection. 3D interferometer provides verification of MTP®/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

12F MTP-MTP Trunk Cable						
Serial	MTP-MTP Trunk Cable Type B					
Lot No.	12F-MTP-MTP-001					
PIN	12F-MTP-MTP					
Wavelength	1550nm					
Channel	Connector	SPL (dB)		SPL (dB)		
		IL (dB)	RL (dB)	IL (dB)	RL (dB)	
1	Blue	0.00	27	0.07	28	
2	Orange	0.00	27	0.04	28	
3	Green	0.10	28	0.07	27	
4	Brown	0.03	26	0.14	28	
5	Black	0.10	27	0.11	28	
6	White	0.12	28	0.11	28	
7	Red	0.07	26	0.07	28	
8	Black	0.10	27	0.09	28	
9	Yellow	0.09	27	0.10	27	
10	Orange	0.06	27	0.11	28	
11	Black	0.09	28	0.04	28	
12	Blue	0.10	28	0.07	28	

Test Report of IL & RL