NEW

MTP®/MPO solution

MTP® Fiber Optic Adapters

ONE-PIECE TECHNOLOGY

- Adapters provide quick connection of MTP®/MPO connectors – connection integrity is provided by adapter latches which are locked into place on the connectors by a spring loaded sliding mechanism
- One-piece design of adapter body – increased side loading performance
- Available in black, aqua, beige, violet magenta and green
- Flange or flangeless configuration
- Opposed key orientation - TIA 604-5D (on request aligned key orientation in gray housing color)
- Standard MTP footprint type (on request MTP adapters in SC footprint type available)

HIGH DENSITY APPLICATION

Applications

- Data Center Systems
- Array trunk cabling
- Dense interconnect for data center and telecommunication system
- Chassis-to-chassis connections
- Structured cabling per TIA-568-C

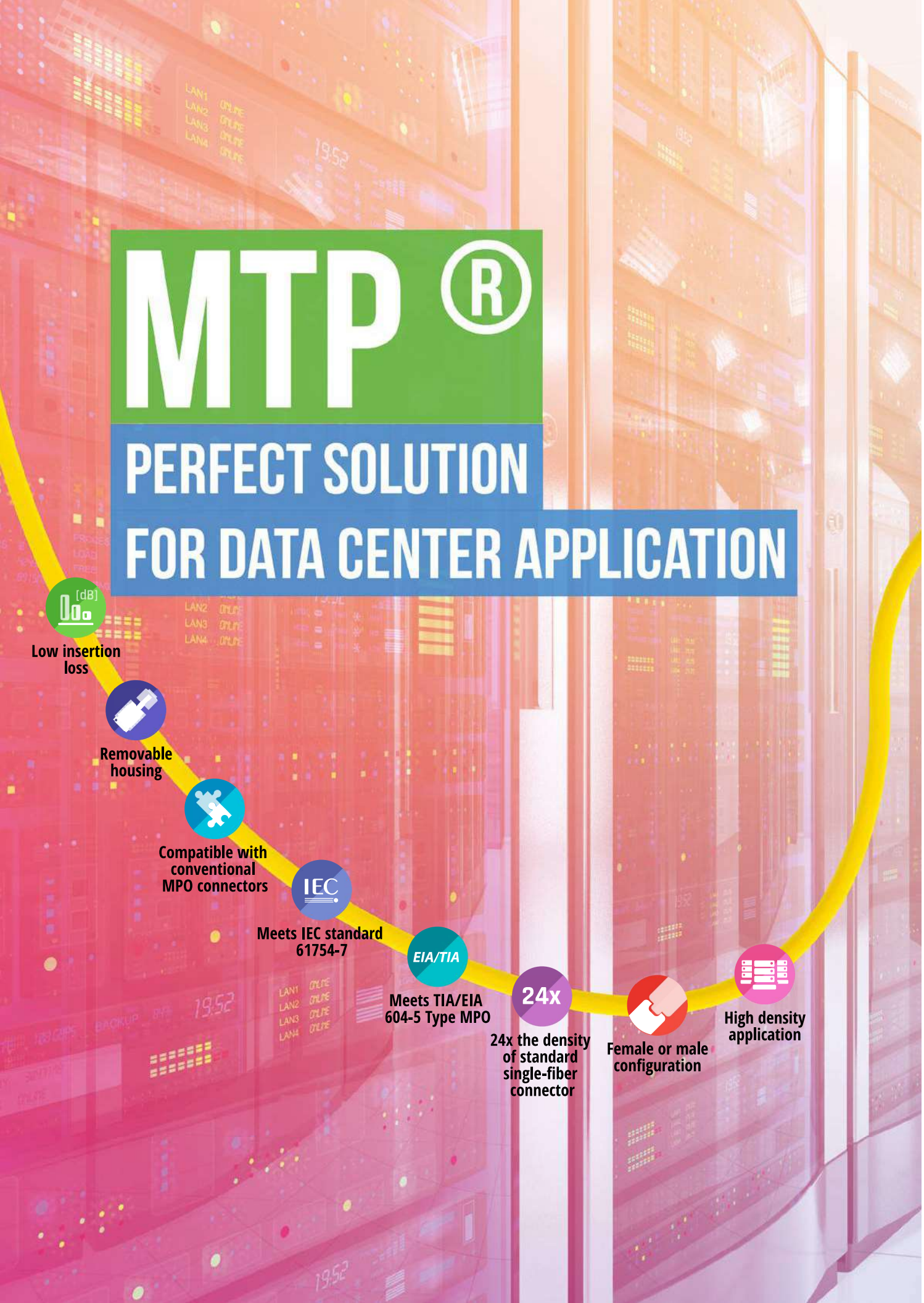
Features

- Low insertion loss
- Meets IEC Standard 61754-7
- Meets TIA/EIA 604-5 Type MPO
- Push-pull mechanism provides quick connections

Available colors

Ordering information

AD-MTP-SM-GR-F	FIBRAIN MTP SM adapter, flange, green housing, opposed key
AD-MTP-OM1-BG-F	FIBRAIN MTP OM1 adapter, flange, beige housing, opposed key
AD-MTP-OM2-BK-F	FIBRAIN MTP OM2 adapter, flange, black housing, opposed key
AD-MTP-OM3-AQ-F	FIBRAIN MTP OM3 adapter, flange, aqua housing, opposed key
AD-MTP-OM4-V-F	FIBRAIN MTP OM4 adapter, flange, violet housing, opposed key


MTP ®
PERFECT SOLUTION
FOR DATA CENTER APPLICATION
[dB]
Low insertion loss
Removable housing
Compatible with conventional MPO connectors
IEC
Meets IEC standard 61754-7
EIA/TIA
Meets TIA/EIA 604-5 Type MPO
24x
24x the density of standard single-fiber connector
Female or male configuration
High density application


NEW
HIGH DENSITY
APPLICATION

NEW

MTP® Trunk cables

- 12 or 24 fibers in one connector
- Designed for SM and MM application
- Small diameter of ruggedized round cables
  - 12F → Ø 3.0 mm cable diameter
  - 24F → Ø 3.5 mm cable diameter
- Provide quick connection for up to 24 optical fiber
- Color coded housings available to differentiate fiber type
- Removable housing for quick gender change
- Female and male configuration available
- Polarization version A, B or C
- Alignment achieved with high precision quide pins with elliptical shape to minimize ferrule debris
- Low insertion loss
- 100% optical measurements
- 100% interferometric measurements
- Ideal solution for high fiber count, multi-row applictions in array trunking, breakout modules

HIGH DENSITY APPLICATION

Available colors of connector housing

MTP® Fanouts – Direct Split

- This solution combine MTP® multi-fiber connectors with standard, single-fiber optic connectors
- Fanouting is made directly in the MTP® connector – without any additional furcation point
- Designed for SM and MM application, typically used in a 3U modular patch panel
- Wide range of single-fiber optic connectors, for example: LC, SC, E2000 with PC or APC polishing type
- Provide compact, cost effective solution for multi-fiber which require the MTP® hardware to be integrated with single-fiber connector assemblies
- Female or male configuration of MTP® connectors
- Low insertion loss
- Good value for money, the best price-quality ratio
- Different type of optical fiber available (G.652D, G.657, OM1, OM2, OM3 or OM4)

MTP® TRUNK/CONNECTING CABLES

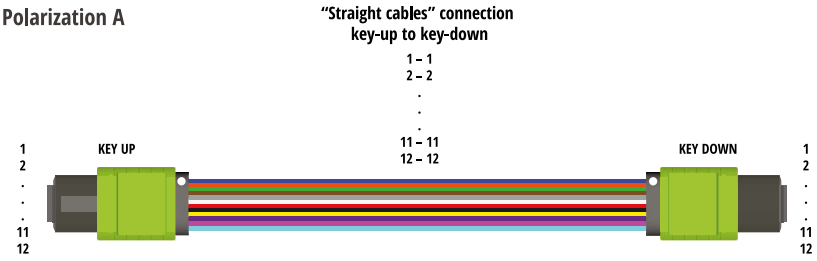
NEW

Fiber optic patchcords terminated with MTP® connectors are specifically designed for Data Center system. MTP® connectors, using the MT ferrule, can increase the density of 4 to 72x compared to traditional, single-fiber optic connectors. MTP® patchcords and pigtails are specifically designed to be used in both single- and multimode transmission. Modern and repeatable production process, detailed quality control, interferometric as well as IL & RL parameters control measurement make Fibrain patchcords and pigtails reliable elements of tracks and fiber optic networks. Connecting elements terminated with MTP® connectors are popular and willingly used solution for Data Center cabling, backbone networks and local broadcast of bandwidth 40/100 Gb /s bandwidth.

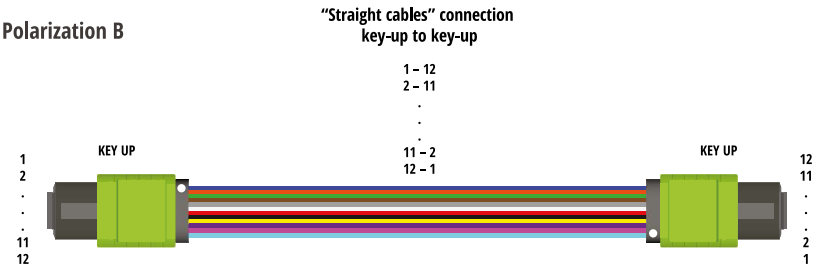
HIGH DENSITY APPLICATION

FIBER IDENTIFICATION AND POLARIZATION CLASSIFICATION:

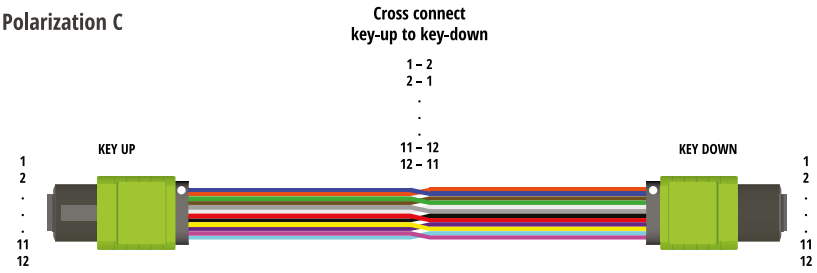
Polarization A



Polarization B



Polarization C



Technical specifications

Parameter	MTP APC SM	MM PC
Max. Insertion Loss IL_{MAX} Acc. IEC 61300-3-4	≤ 0.40 dB	≤ 0.40 dB
Typical Insertion Loss IL_{TYP} Acc. IEC 61300-3-4	≤ 0.20 dB	≤ 0.20 dB
Return Loss RL Acc. IEC 61300-3-6	≥ 65 dB	≥ 35 dB

Ordering information

Class	Fiber qty	Connector		Boot type	Cable diameter	Length [m]	Cable type	Fiber type	Polarization
		A	B						
G-Gold	12-12	MTPA.F – MTP female APC	MTPA.F – MTP female APC	S - standard	R30 – round 3.0 mm	001.0	1 – DC PRIM	A – G652D	A
		MTPA.M – MTP male APC	MTPA.M – MTP male APC					D – G657A1	B
		MTP.F – MTP female	MTP.F – MTP female					E – G657A2	C
		MTP.M – MTP male	MTP.M – MTP male					H – OM1	
								I – OM2	
								K – OM3	
								L – OM4	

Features

- In accordance with IEC 61754-7, TIA/EIA 568-C,
- High quality and repeatability of transmission parameters,
- Connectors made of high quality plastics,
- MTP connectors compatible with MPO connectors,
- Good value for money, the best price-quality,
- High quality MT ferrule provides placing a lot of optical fibers in one connector.

Applications

- Telecommunication networks,
- Data Center SYSTEMS,
- FTTx, FTTD, FTTB, FTTH networks

MTP® FANOUTS DIRECT SPLIT

NEW

Fibrain MTP® Fanouts of Direct Split type connect MTP® multi-fiber connectors with standard, single-fiber optic connectors. This solution is specifically designed to be used in singlemode and multimode transmission. Therefore, in our product portfolio, there is a wide range of fiber optic connectors. The side terminated with MTP® connectors includes male or female connectors- depending on customer's needs.

HIGH DENSITY APPLICATION

TECHNICAL SPECIFICATIONS

Multi-fiber MTP connectors

Parameter	MTP APC SM	MM PC
Max. Insertion Loss IL_{MAX} Acc. IEC 61300-3-4	≤ 0.40 dB	≤ 0.40 dB
Typical Insertion Loss IL_{TYP} Acc. IEC 61300-3-4	≤ 0.20 dB	≤ 0.20 dB
Return Loss RL Acc. IEC 61300-3-6	≥ 65 dB	≥ 35 dB

Single-fiber standard optical connectors

Parameter (connectors)	SM PC	SM APC	MM
Max. Insertion Loss IL_{MAX} Acc. IEC 61300-3-4	≤ 0.17 dB	≤ 0.20 dB	≤ 0.20 dB
Typical Insertion Loss IL_{TYP} Acc. IEC 61300-3-4	≤ 0.15 dB	≤ 0.16 dB	≤ 0.12 dB
Return Loss RL Acc. IEC 61300-3-6	≥ 55 dB	≥ 65 dB	≥ 35 dB

Fiber identification - fiber color (outer transparent tube)

1-12	1	2	3	4	5	6	7	8	9	10	11	12
Code												
Color	blue	orange	green	brown	grey	white	red	black	yellow	violet	pink	aqua

Ordering information

Class	Fiber qty	Connector A	Connector B	Boot type	Cable diameter	Length [m]	Cable type	Fiber
G-Gold	12-12	MTPA.F – MTP female APC	SC	S - standard	09 - 900µm	001.0	DS – Direct Split	A – G652D
		MTPA.M – MTP male APC	SCA					D – G657A1
		MTP.F – MTP female	LC					E – G657A2
		MTP.M – MTP male	LCA					H – OM1
			FC					I – OM2
			FCA					K – OM3
			E2					L – OM4
			E2A					

Features

- In accordance with IEC, TIA/EIA standards ,
- High quality and repeatability of transmission parameters,
- Connectors made of high quality plastics,
- Good value for money, the best price-quality ratio,
- High quality MT ferrule, provides placing a lot optical fibers in one connector.

Applications

- Telecommunication networks,
- Data Center SYSTEMS,
- FTTx, FTTD, FTTB, FTTH networks