

FHD MTP® Mesh Cassettes Datasheet

Simplify complex network architectures in modern spine-leaf.



Overview

FHD (FS High Density) series MTP® mesh cassettes feature 4 or 8 rear 8-fiber MTP® ports connection and 4 or 8 8-fiber MTP® ports in front. The MTP®-8 mesh cassette is ideal for deployments including 40G to 10G, 100G to 25G and 400G to 100G. Providing future-proof Ethernet and fiber channel networks at continuously rising transmission speeds in data centers makes mesh cassettes almost indispensable for the required high-performancefully meshed network infrastructures in modern data centers.

Using mesh cassettes to simplify complex network architectures in modern spine-leaf. The staggered line sequence in the MTP mesh cassette adapt to the channelization setting of switch ports, which greatly improves the link redundancy without additional LC fiber cables.

Benefits

- Fully Compatible with All FHD Enclosures
- 4 Cassettes Fit into 1U, Up to 256 Fibers
- Integrates into Mesh Housing Less Cost to Deploy in Spine-leaf Cabling
- Interface Color-coding Makes It Easy to Identify Fiber Type
- US Conec MTP® Adapter and Bend Insensitive Fiber
- 0.35dB Ultra Low-loss MTP® Connectors Allow for More Mated Pairs or Longer Link Distances

Product Specifications

I. Product Constructions

Fiber Count	64 Fibers, 32 Fibers
Fiber Mode	Multimode: OM4 50/125µm Single mode: OS2 9/125µm
Connector	Multimode: MTP® Adapter(s) with Male Ferrules (pins) and UPC Polish Single mode: MTP® Adapter(s) with Male Ferrules (pins) and APC Polish
Material	Aluminium (AL5052)
Dimensions (HxWxD)	1.38"x4.29"x6.67"' (35x109x169.4mm)

II. Performance Properties

Connector	US Conec MTP®
Insertion Loss	Multimode: Ultra low IL 0.35dB max. Single mode: Ultra low IL 0.35dB max.
Return Loss	Multimode: ≥20dB Single mode: ≥60dB
Connector Durability	MTP® Connector Meets TIA/EIA-568.C.3A.4.9 Durability: 500 Mating Cycles

Note:

The US Conec MTP® connectors are fully compliant with the MPO standards, achieving higher performance levels when compared to generic MPO connectors.

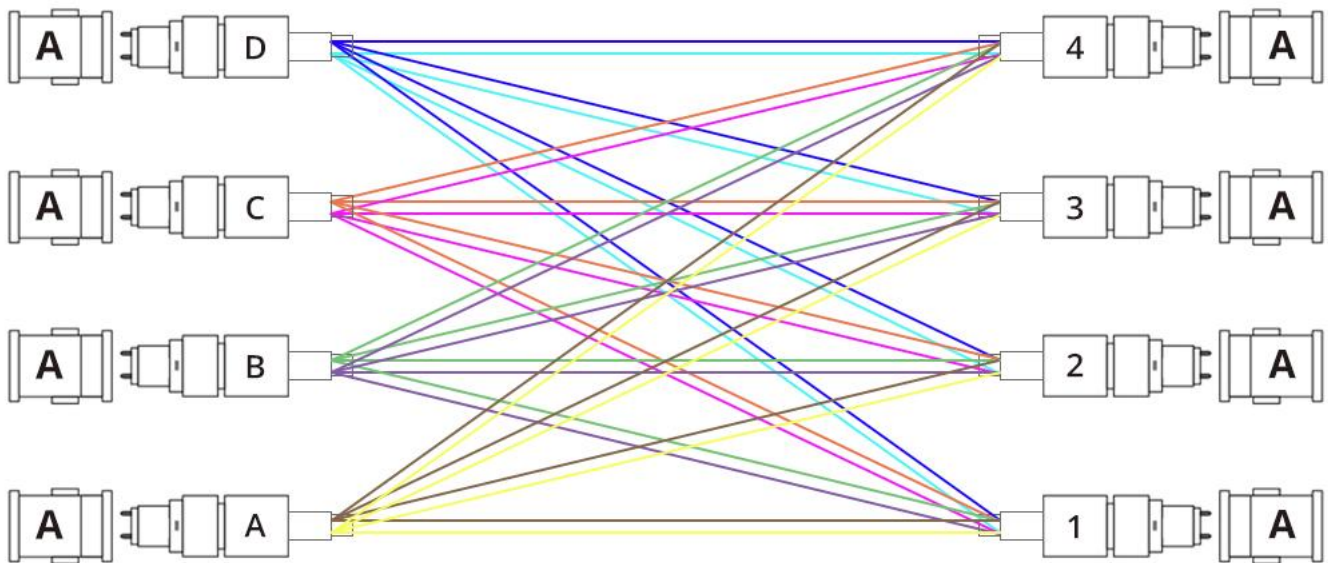
III. Environmental Characteristics

Operating Temperature	-10°C-60°C
Storage Temperature	-10°C-60°C

Standards Compliance

- ISO9001 Certificate
- RoHS Compliant
- REACH Compliant

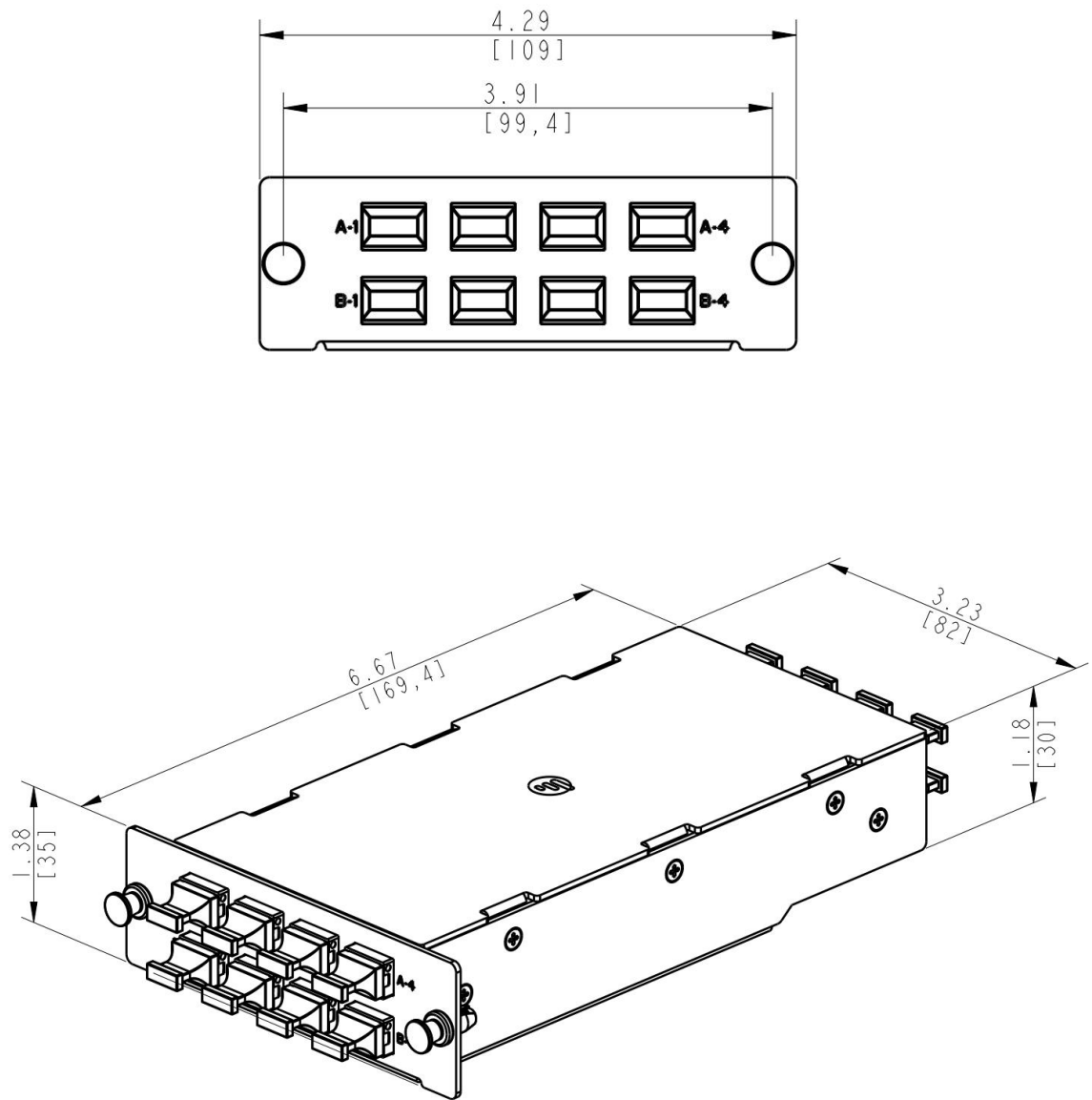
Polarity Illustration

**Note:**

MTP® Connector (Single mode): APC Polish as default

MTP® Connector (Multimode): UPC Polish as default

Layout and Dimensions



Dimensions are in inches. (Dimensions in parentheses are in millimeters).

Products List

I.MTP® Mesh Cassettes List

ID Number	Description
#230563	FHD 4 x MTP®-8 Mesh Cassette, 32 Fibers OS2 Single Mode, Universal Polarity, 4 x 8F MTP® to 4 x 8F MTP® (Green), 0.35dB max
#230565	FHD 4 x MTP®-8 Mesh Cassette, 32 Fibers OM4 Multimode, Universal Polarity, 4 x 8F MTP® to 4 x 8F MTP® (Aqua), 0.35dB max
#181824	FHD 8 x MTP®-8 Mesh Cassette, 64 Fibers OS2 Single Mode, Universal Polarity, 8 x 8F MTP® to 8 x 8F MTP® (Green), 0.35dB max
#181825	FHD 8 x MTP®-8 Mesh Cassette, 64 Fibers OM4 Multimode, Universal Polarity, 8 x 8F MTP® to 8 x 8F MTP® (Aqua), 0.35dB max

II.Matching Product

Description	ID Number	Part Number	Capacity Max.	Fiber Count
FHD 1U Sliding Rack Mount Enclosure	#70361	FHD-1UFCE	4 Ports	144F
FHD 2U Sliding Rack Mount Enclosure	#73205	FHD-2UFCE	8 Ports	288F
FHD 4U Sliding Rack Mount Enclosure	#73206	FHD-4UFCE	12 Ports	432F
FHD 1U Fixed Rack Mount Enclosure	#96427	FHD-1UFMT-N	4 Ports	144F
FHD 1U Sliding Rack Mount Enclosure	#145167	FHD-1UFMT-S	4 Ports	144F
FHD 1U Modular Rack Mount Enclosure	#70419	FHD-1U-CMP400	4 Ports	144F
FHD 1U Blank Rack Mount Enclosure	#72910	FHD-FPP5DRL	4 Ports	144F