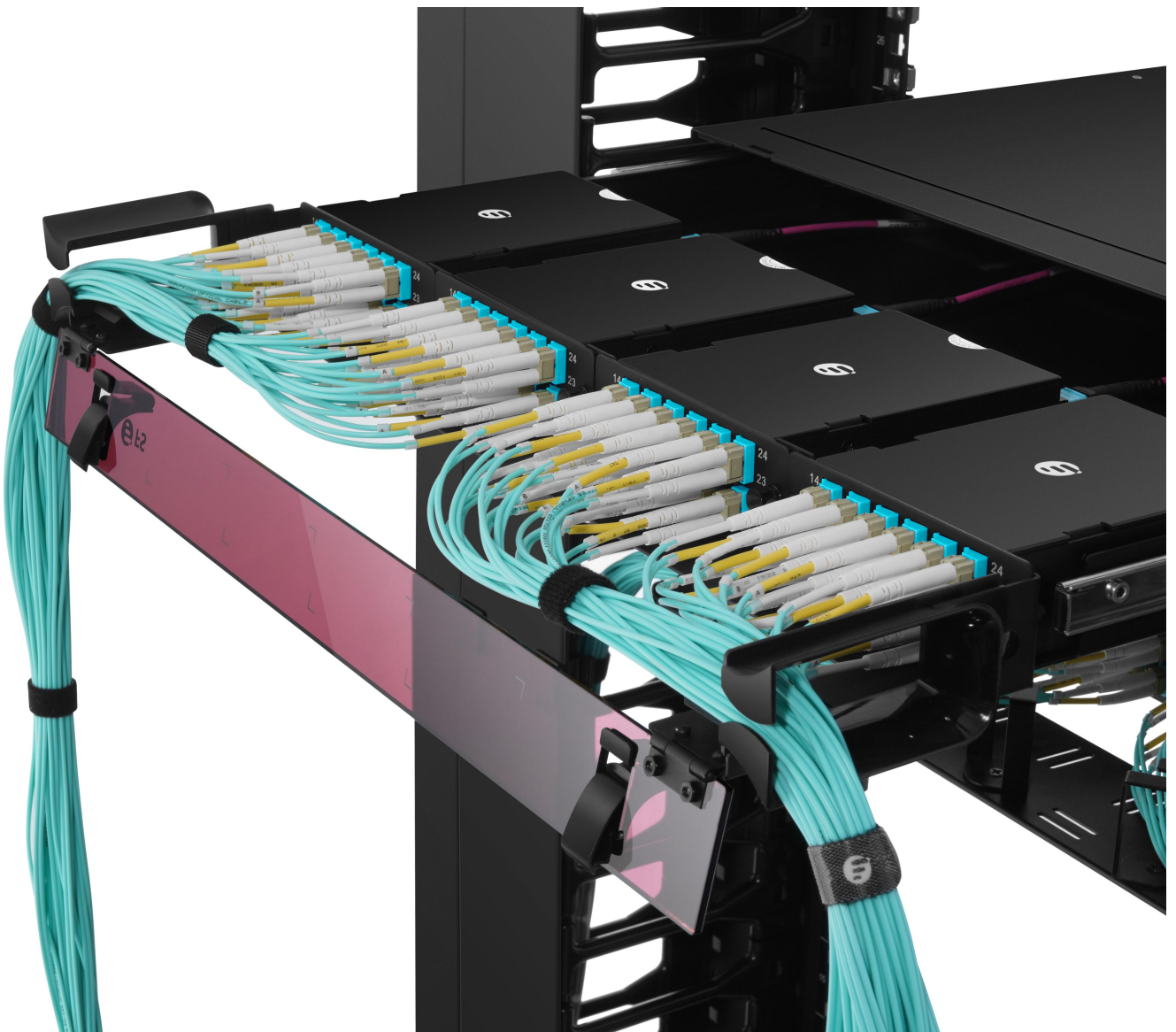System Guide

FHD High Density Fiber Cabling System

Data Center & Cloud Computing
Infrastruture Solutions

REV.1.0
2018

What is FS.COM FHD High Density Solution?

Today's data center and telecommunications environments heavily depend on the foundations of the optical network – communicating, transmitting, and protecting the data upon which your business relies.

FS.COM FHD system meet the need to optimize existing data center space, enabling organizations to meet business demands for higher data rates while minimizing the costs of space and equipment.
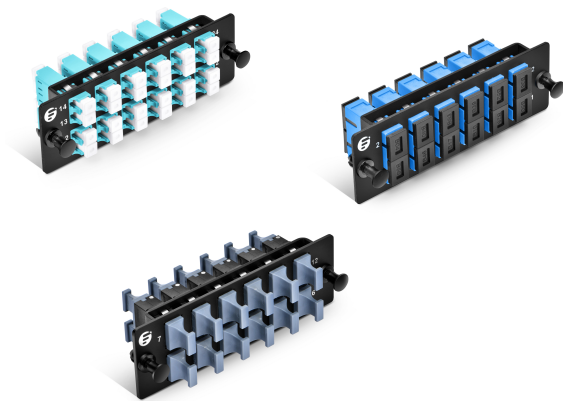
I Fiber Optic Enclosures

· Rack Mount and Wall Mount

· Up to 96 fibers in 1U, 192 fibers in 2U, and 288 fibers in 4U (LC fibers)

· Compatible with high density fiber cassettes & adapter panels

· Accessories included for fiber cable entry & management

Part Number	ID No.	Rack Spaces	Max. Fibers	Capacity	Accessories
Rack Mount Enclosure					
FHD-1UFCE	51607	1U	96F	4	√
FHD-2UFCE	51610	2U	192F	8	√
FHD-4UFCE	73206	4U	288F	12	√
Wall Mount Enclosure					
FHD-FWME2	50550	N/A	48F	2	√
Modular Panel					
FHD-1U-CMP400	70419	1U	96F	4	√
Enclosure Accessories					
FHD-FAPB	35526	FHD Blanking Fiber Adapter Plate			
FHD-FOSMF-24F	64246	24 Fibers Optical Splice Tray for FHD Fiber Enclosure			
FHD-FMS	70752	Fiber Slack Management Spool for FHD Fiber Enclosure			
FHD-FEBRC	70753	Bend Control Radius Bracket for FHD Rack Mount Fiber Enclosure			
FHD-FWME-STH	73717	Splice Tray Holder for FHD Wall Mount Enclosure			

II Fiber Optic Adapter Panels

· Provides a complete system solution for connectivity, such as LC, SC, MTP adapters

· Assures flexibility and ease of network deployment and MACs

· Clear numbering on the front provides a quick, easy way to identify cable runs

Part Number	ID No.	Fiber Count	Fiber Mode	Polish Type
LC Adapter Panels				
FHD-FAP12LCDXSMF	35488	24F	OS2	UPC
FHD-FAP12LCDX10GMM	41998	24F	OM3/OM4	UPC
FHD-FAP12LCADZSMF	25514	24F	OS2	APC
SC Adapter Panels				
FHD-FAP6SCDXSMF	35484	12F	OS2	UPC
FHD-FAP6SCDZ10GMM	51284	12F	OM3/OM4	UPC
FHD-FAP6SCADXSMF	41986	12F	OS2	APC

Part Number	ID No.	Fiber Mode	Key Orientation
MTP Adapter Panels			
FHD-FAP12MTPHA	35510	OS2/OM3/OM4	Up - Down
FHD-FAP8MTPHB	52022	OM3/OM4	Up - Up
Blanking Adapter Panels			
FHD-FMP6	66602	6-Port Blank Multimedia Modular Panel	
FHD-FAPB	35526	FHD Blanking Fiber Adapter Plate	

III Fiber Optic Cassettes

- Provides a complete system solution for
- connectivity, such as LC, SC, MTP adapters

- Assures flexibility and ease of network
- deployment and moves, adds, and changes

- The clear numbering on the front provides a
- quick, easy way to identify cable runs

- High performance connectors to achieve a
  low loss optical budget

- Plug-in adapter design, more stable when
  the adapters are fixed

- Adapter housing colors follow TIA/EIA-568-C.3
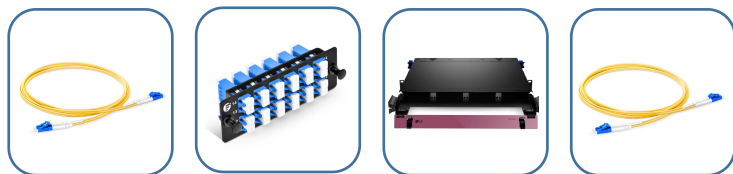 suggested, easy identification of fiber type

Part Number	Product ID	Fiber Count	Fiber Mode	Polarity
Base-8, LC Duplex/Quad to MTP Connector (Pinned)				
FHD-1MTP4LCDSMF	68401	8F	OS2	N/A
FHD-1MTP4LCDOM4	68402	8F	OM3/OM4	N/A
FHD-3MTP6LCQOM4	68399	24F	OM3/OM4	N/A
Base-12, LC/SC Duplex to MTP Connector (Pinned)				
FHD-1MTP6LCDSMFA	57016	12F	OS2	Type A
FHD-1MTP6LCDSMFAF	57037	12F	OS2	Type AF
FHD-1MTP6LCDOM4A	57017	12F	OM3/OM4	Type A
FHD-1MTP6LCDOM4AF	57038	12F	OM3/OM4	Type AF
FHD-1MTP6SCDSMFA	57058	12F	OS2	Type A

III Fiber Optic Cassettes

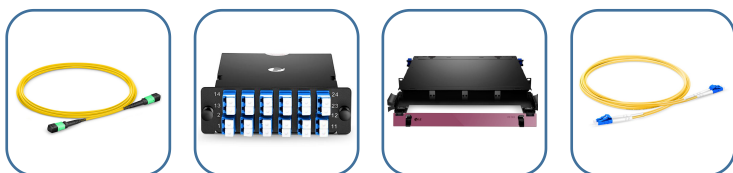| Part Number	Product ID	Fiber Count	Fiber Mode	Polarity
Base-12, LC Duplex to MTP Connector (Pinned)				
FHD-2MTP12LCDSMFA	57341	24F	OS2	Type A
FHD-2MTP12LCDSMFAF	68540	24F	OS2	Type AF
FHD-2MTP12LCDOM4A	57342	24F	OM3/OM4	Type A
FHD-2MTP12LCDOM4AF	68541	24F	OM3/OM4	Type AF
Base-24, LC Duplex to MTP Connector (Pinned)				
FHD-1MTP12LCDSMFA	57023	24F	OS2	Type A
FHD-1MTP12LCDSMFAF	68549	24F	OS2	Type AF
FHD-1MTP12LCDOM4A	57024	24F	OM3/OM4	Type A
FHD-1MTP12LCDOM4AF	68550	24F	OM3/OM4	Type AF

Stuctured Cabling Solution of FHD Series Products

FS.COM offers 1U, 2U, 4U rack mount enclosures and wall mount enclosure, which can house FHD series MTP modular cassettes or fiber adapter panels. They could provide a high-density flexible system for managing fiber terminations, connections, and patching in data center application to maximizing rack space utilization and minimizing space.

Patch Cord Connections

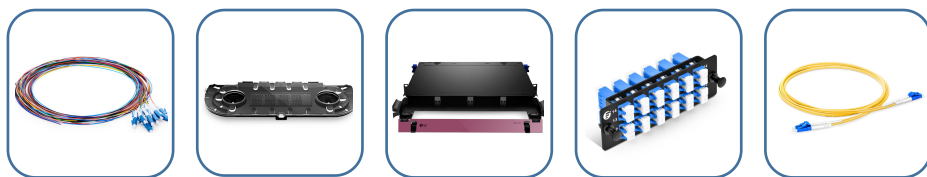| Item No.	ID No.	Description
①	68294	LC UPC to LC UPC Duplex OS2 Patch Cable
②	35488	Fiber Adapter Panel with 12 LC Duplex OS2
③	51607	1U Rack Mount HD Fiber Enclosure

MTP Cabling Management

Item No.	ID No.	Description
①	57341	MTP-12 Cassette, 24 Fibers OS2, Type A
②	68102	12 Fibers OS2 MTP Trunk Cable, Type A
③	68540	MTP-12 Cassette, 24 Fibers OS2, Type AF
④	51607	1U Rack Mount HD Fiber Enclosure
⑤	68294	LC UPC to LC UPC Duplex OS2 Patch Cable

* The connection of method A is shown for reference.
* For more information about the proper polarity in base 8/12/24 structured cabling please view our Polarity Resources.
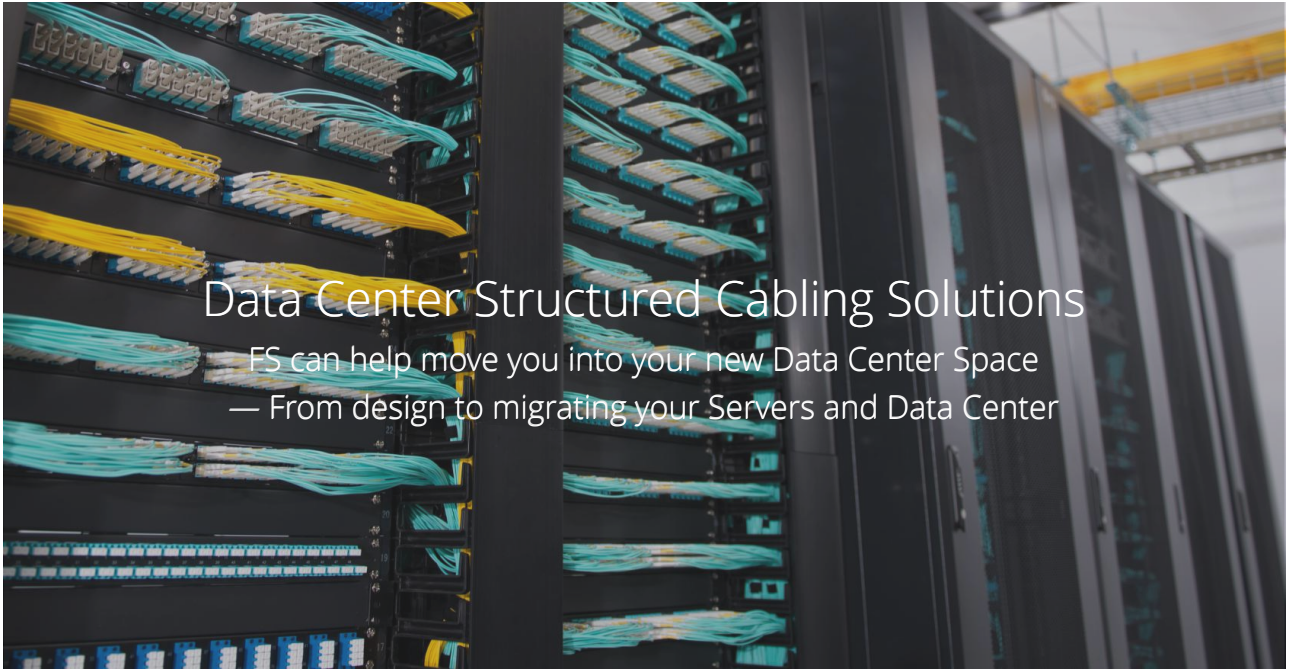
Fiber Optic Splicing
*For Rack Mount

Item No.	ID No.	Description
①	42459	12 Fibers LC/UPC OS2 Fiber Optic Pigtail
②	64246	24 Fibers Optical Splice Tray
③	51607	1U Rack Mount HD Fiber Enclosure
④	35488	Fiber Adapter Panel with 12 LC Duplex OS2
⑤	68294	LC UPC to LC UPC Duplex OS2 Patch Cable

Note: The storage of spliced fiber pigtails for Rack Mount Enclosure and Wall mount Enclosure are using different splice accessories. Splicing for Wall Mount Enclosure is shown as below.

Fiber Optic Splicing
*For Wall Mount

Item No.	ID No.	Description
①	42459	12 Fibers LC/UPC OS2 Fiber Optic Pigtail
②	28774	24 Fibers Fusion Splice Tray
③	73717	Splice Tray Holder
④	50550	Fiber Optic Wall Mount Enclosure
⑤	35488	Fiber Adapter Panel with 12 LC Duplex OS2
⑥	68294	LC UPC to LC UPC Duplex OS2 Patch Cable

Data Center Structured Cabling Solutions
FS can help move you into your new Data Center Space
— From design to migrating your Servers and Data Center

Engineering and Project Services

Project Design Service
All fiber network cabling projects are custom designed to the unique specifications of the data center space and the customer's specific demands, purposes, only for providing the best and cost-effective solutions.

Wiring Management Optimization
Fiber optic hardware system can be recommended according to the exact applica-tion environment, to better facilitate future modifications to the structured cabling network, ease of deployment, flexibility and reliability.

Product Service
We can provide various products, enclosures, cassettes, panels to different applica-tion environment requirements and based on the needs of programme, helping verify products paraments, offering suitable items.

Email us at Datacenter@fs.com or Tech@fs.com.

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