



# Optical Distribution Frames

2022 PRODUCT CATALOG | 4TH EDITION

COMMScope®



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# Traditional Frame Solutions

## 8-Inch FCM Optical Distribution Frame - Introduction

### Frames

CommScope's 8-inch FCM solution utilizes a traditional frame designed to fit a variety of termination, splice and storage applications. This rear load frame is built to ensure commonality with patch cord routing, slack storage and fiber protection. It is shipped complete with enhanced front cable management, top and bottom troughs. Available accessories include interbay management panels (IMPs), rear slack storage, etc.



### Termination Panel

The termination panel is available with multiple adapter types using angled retainers in configurations of 72, 96, 144 and higher and can be ordered with adapters only or preterminated with either intrafacility (IFC), outside plant (OSP) cables or pigtails for ease of installation.

### Splice Panel

CommScope's splice panel protects splices of multiple splice types.

### Value-Added Module (VAM) Chassis

Adding signal management and enhancement functions, such as splitters, couplers and wavelength division multiplexers, optimizes the value of your fiber network, by providing nonintrusive access to the optical signal for monitoring and testing signal integrity. CommScope's 8-inch FCM VAM chassis accommodates various splitter and WDM modules.

### Product overview

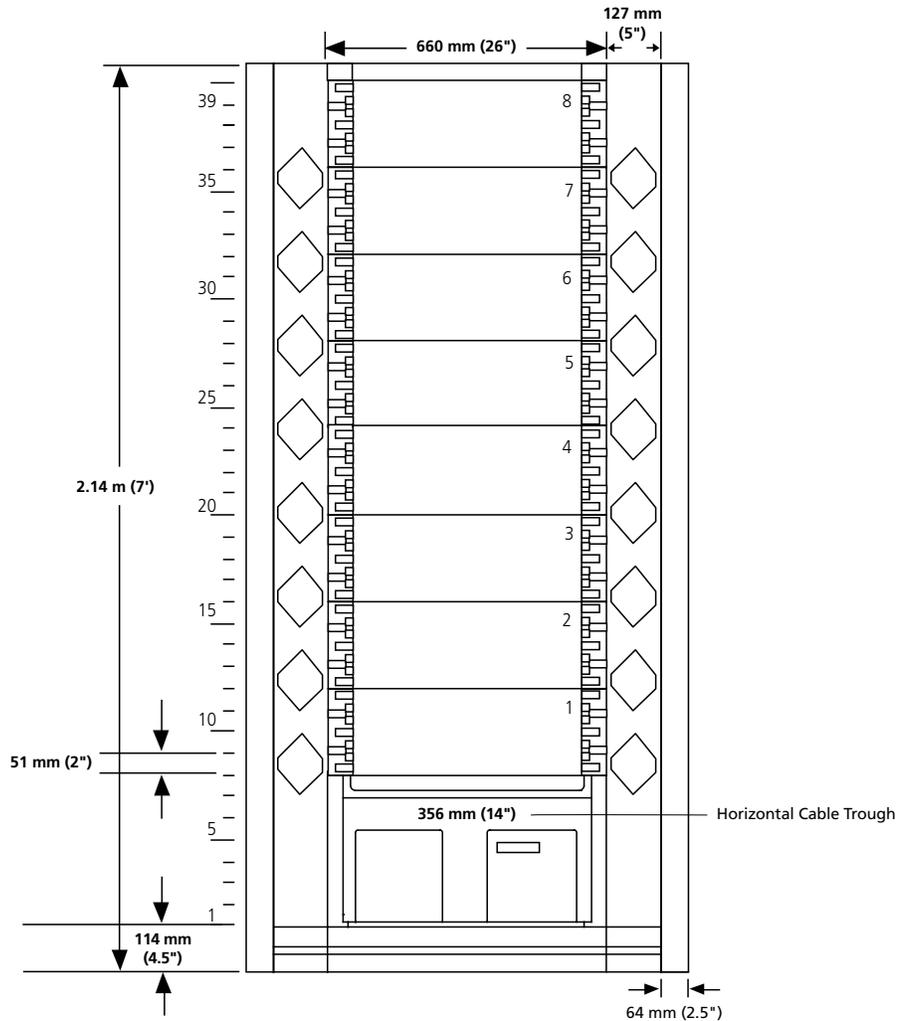
<b>Recommended applications:</b>	Small to medium fiber count applications. Best cable management solution in traditional ODF.
<b>Description:</b>	Traditional footprint; 72-, 96- and 144-position panels
<b>Number of fibers, future growth potential</b>	Up to 5,000
<b>Interconnect</b>	Good
<b>Cross-connect</b>	Excellent
<b>Accommodates on-frame splicing</b>	Very good
<b>Accommodates off-frame splicing</b>	Very good
<b>Rear access</b>	Required. Has excellent rear cable management
<b>Density – terminations per frame</b>	1,152 terminations per frame
<b>Front access to rear connector</b>	Yes
<b>VAM capabilities</b>	Yes. Separate panel required
<b>Slack storage location</b>	IMP. Positive bend radius protection
<b>Connector access</b>	Angled retainer

# 8-Inch FCM Optical Distribution Frame

## Configuration Form

This page may be copied and used to configure this rear load frame.\* The configuration drawing may then be attached to an order.

- Rear load frames are typically used in cross-connect applications in which splicing is done in the vault or a designated off-frame splice area
- Interbay management panels and end guards shown here are ordered and shipped separately
- Preterminated rear load panels are shipped separately from the frame
- 14-inch lower troughs are recommended for most applications; however, other lower troughs are available.



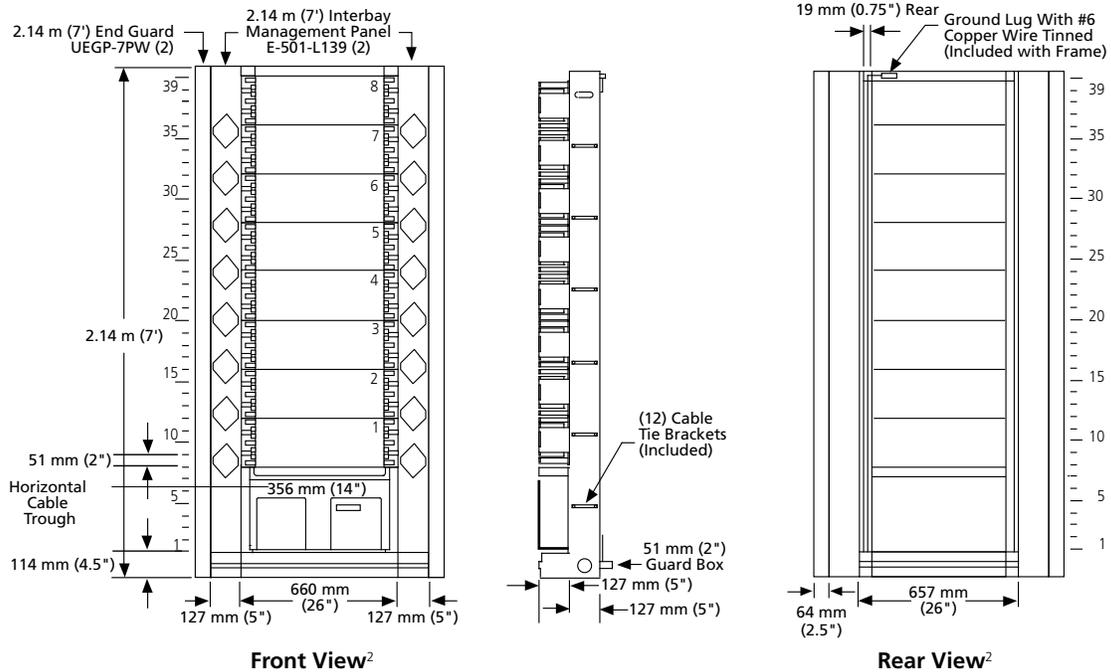
\*Legacy front load panels and accessories remain available. Please contact CommScope Technical Assistance Center for ordering information.



# 8-Inch FCM Optical Distribution Frame

## Fiber Distribution Frame (Rear Load)

Rear load frames<sup>1</sup> are recommended for applications when splicing is done in the vault or at an off-frame splice area. One rear load frame can accommodate up to eight 8-inch panels. A 7-foot frame supports up to 1,152 terminations. Rear load FCM frames come equipped with unequal flange network type 4.5-inch guard box frame, 14-inch lower horizontal cable trough, front vertical cable guides, ground wire kit, and cable tie brackets. Rear load panels come equipped with rear fanning triangles and 8-inch rear doors.



## Ordering Information

Description	Dimensions (HxWxD)	Catalog Number
<b>8-inch FCM fiber distribution frame</b> Network style unequal flange rear load frame with 356 mm (14") trough		
2.14 m (7')	2.14 m x 660 mm x 305 mm (7' x 26" x 12")	E-501-L91

For existing lineups with 6", 8" or 16" lower cable troughs, contact CommScope Technical Assistance Center.

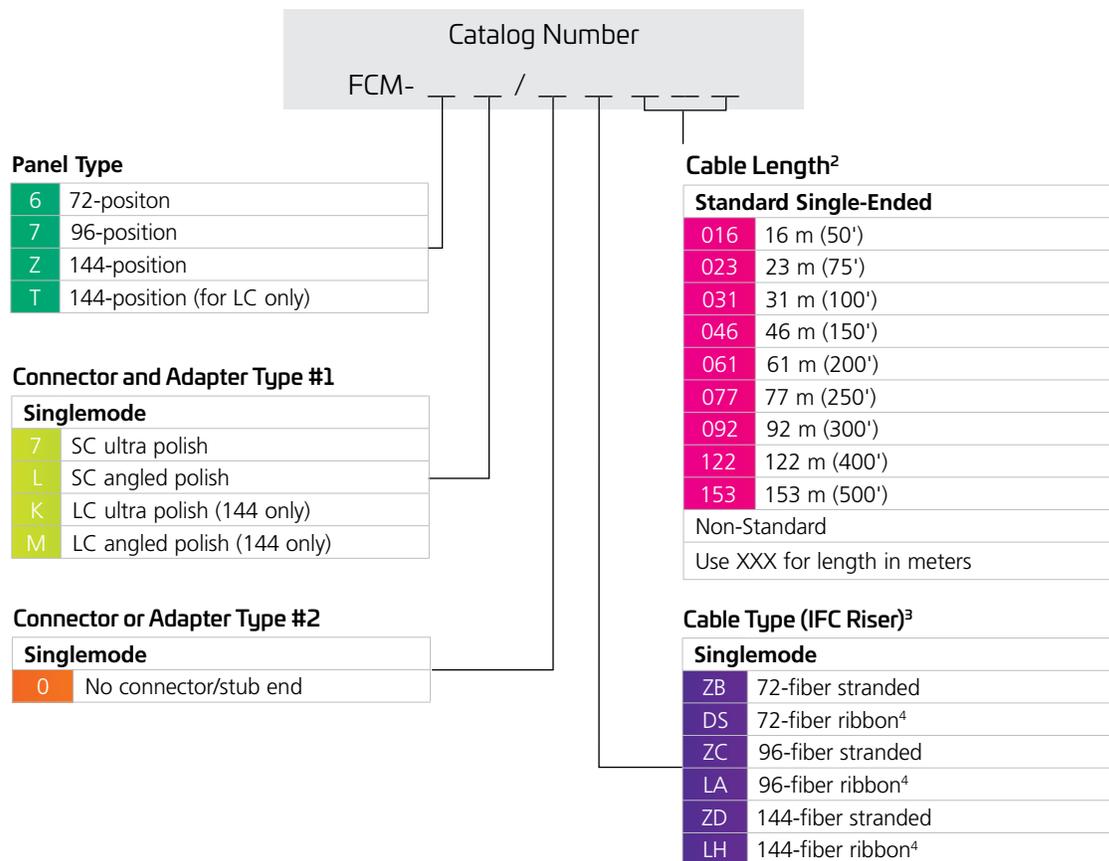
<sup>1</sup> Legacy front load panels and accessories remain available. Please contact CommScope Technical Assistance Center for ordering information.

<sup>2</sup> Interbay management panels and end guards shown are for reference only. They are ordered separately.

# 8-Inch FCM Optical Distribution Frame

## Preterminated Fiber Termination Panels with Multifiber Cable – IFC

Rear load frames<sup>1</sup> are recommended for applications when splicing is done in the vault or at an off-frame splice area. One rear load frame can accommodate up to eight 8-inch panels. A 7-foot frame supports up to 1,152 terminations. Rear load FCM frames come equipped with unequal flange network type 4.5-inch guard box frame, 14-inch lower horizontal cable trough, front vertical cable guides, ground wire kit, and cable tie brackets. Rear load panels come equipped with rear fanning triangles and 8-inch rear doors.



<sup>1</sup> Legacy front load panels and accessories remain available. Please contact CommScope Technical Assistance Center for ordering information.

<sup>2</sup> Panels using CommScope's standard cable offering have a shorter lead time than panels using a specific cable manufacturer. CommScope only provides GR-409 compliant cable that meets or exceeds our high quality standards. Standard cable offerings include Alcatel, Corning, Berk-Tek, Sumitomo and Prysmian.

<sup>3</sup> Standard cable exit direction is upward.

<sup>4</sup> See pages 94-98 to configure breakout kits for configuration using stubbed IFC ribbon cable.

Other configurations are available upon request. Please contact CommScope Technical Assistance Center.

# 8-Inch FCM Optical Distribution Frame

## Adapter-Only Fiber Termination Panels

This panel is designed to be mounted in a CommScope rear load frame equipped with cable management hardware. An accessory mounting kit is required when installing a rear load panel into a 23-inch WECCO drilled, unequal flange frame (industry-standard front load frame). All rear load panels come with rear doors and cable management attached. The FCM panel contains removable angled retainers; angled toward left and right side, ensuring minimum bend radius. Angled retainers are designed for easy removal without use of tool; allowing easy access to back of the adapter/receptacle from the front of the frame. Fanning strips provide organization and cable management at point of entry to the panel. The removable transparent, smoked plastic cover encloses the front of panel while protecting fibers and connectors from disturbance. The designation card identifies each cable and is visible when cover is open or closed.

### Ordering Information

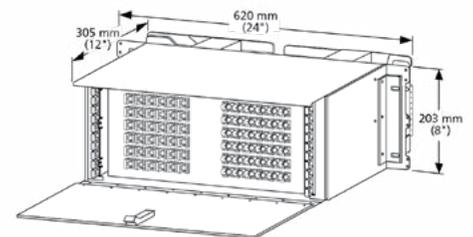
Number of Adapters	Adapter Type	Numbered	Catalog Number
72	<b>Singlemode</b>		
	SC ultra polish	Vertically	FCM-670000
	SC angled polish	Vertically	FCM-6L0000
	FC ultra polish	Vertically	FCM-620000
	LC ultra polish	Vertically	FCM-6K0000
	LC angled polish	Vertically	FCM-6M0000
96	<b>Singlemode</b>		
	SC ultra polish	Vertically	FCM-770000
	SC angled polish	Vertically	FCM-7L0000
	FC ultra polish	Vertically	FCM-720000
	LC ultra polish	Vertically	FCM-7K0000
	LC angled polish	Vertically	FCM-7M0000
144	<b>Singlemode</b>		
	SC ultra polish	Vertically	FCM-Z70000
	SC angled polish	Vertically	FCM-ZL0000
	LC ultra polish	Vertically	FCM-TK0000-144
	LC angled polish	Vertically	FCM-TM0000-144



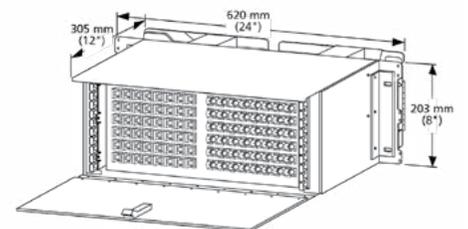
144-Position Panel  
(Front View)



144-Position Panel  
(Rear View)



72-Position  
Termination Panel



96-Position Adapter Only  
Termination Panel

## 8-Inch FCM Optical Distribution Frame Fiber Termination Panel Featuring NG4 CMOD's

The addition of the 8-inch FCM ODF Fiber Termination Panel updates the FDF style chassis with a higher density NG4 quick termination cable using CMODs for plug-and-play installation.

- Designed to be mounted in an FDF rear load frame equipped with cable management hardware.
- Holds up to 288 LC or 144 SC terminations (12 CMODs).
- Each panel opening cabled module, MPO module, or VAM module will fit in each opening with tray adapter insert.
- Modules may be mixed and matched in the same chassis.
- Rear cable management addressed cable management.

### Ordering Information

Description	Dimensions (H x W x D)	Part Number
FCM-100000-CMOD: FCM 288 C-MOD EMPTY PANEL	584 x 305 x 203 mm (23" X 12" X 8")	760245372



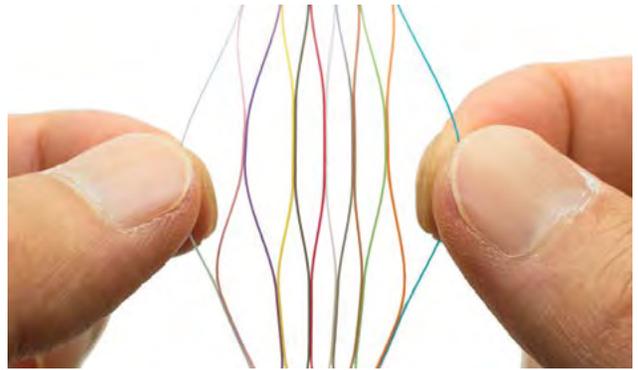
FCM-10000-CMOD  
(Front)



FCM-10000-CMOD  
(Rear)

# Cabled modules with rollable ribbon indoor/outdoor jacketing

Cabled modules with Rollable Ribbon Indoor/Outdoor Jacketing



Rollable Ribbon Cable

## Ordering information

NG4 - CMD



### Cabled module connector type #1

#### Singlemode

K	LC ultra polish
M	LC angled polish

### Far end connector type #2\*

#### Singlemode

0	No connector/stub end
---	-----------------------

### Cable type

	Number of Fibers	Outer Diameter	
R3	144	10.5 mm	.41"
R4	288	12.5 mm	.49"
R5	432	15.5 mm	.61"
R6	576	17.0 mm	.67"
R8	864	19.5 mm	.77"

### Standard cable length\*\*\*

016	16 m (50')
023	23 m (75')
031	31 m (100')
046	46 m (150')
061	61 m (200')
092	92 m (300')
122	122 m (400')
138	138 m (450')
153	153 m (500')
183	183 m (600')
305	305 m (1000')

\*\*\*Use XXX for non-standard lengths in meters  
76" breakout on LC end

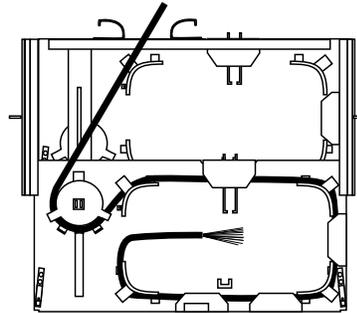
# 8-Inch FCM Optical Distribution Frame

## Splice Panels

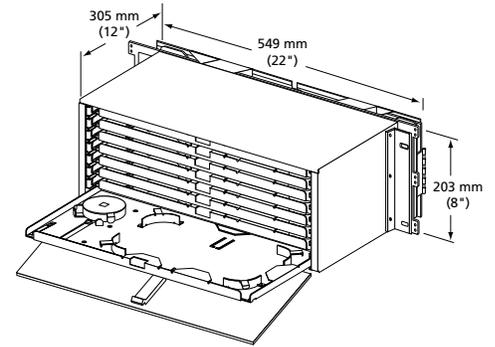
Splice panels for rear load\* frames include 8-inch rear doors and rear cable management. The eight splice drawers provide protective enclosure for mounting splice trays and coiling of the service loop, which is required for off-shelf splicing. Both outside plant (OSP) cable and fiber optic patch cords are terminated at the rear of the FCM, keeping them secure while routine maintenance is performed on the front of the FCM. Each splice drawer holds two 12-fiber single splice trays or one 24-fiber dual splice tray. Splice trays are available with all industry-standard splice chips. Each drawer is designed to handle twenty-four 900 micron pigtailed or twelve 3.0 mm pigtailed. Designation labels are attached to the front of each drawer to identify its contents. The cover encloses the splice panel for protection from normal frame activity. Pigtailed and OSP buffer tubes enter and exit through openings on the back of the panel. The splice tray with slack take-up wheel keeps constant tension on the fiber cable, preventing binding when the drawer is closed.



Splice Panel



Splice Panel  
Loaded with Pigtailed  
(Top View)



Splice Panel  
(E-501-L18 Shown)

## Ordering Information

Description	Dimensions (HxWxD)	Catalog Number
<b>Splice panel</b> for rear load frames	203 mm x 620 mm x 305 mm (8" x 24.4" x 12")	E-501-L18
<b>Cable clamp</b>	10 mm – 31 mm (0.4" – 1.2" outer diameter)	E-501-L40

\* Legacy front load panels and accessories remain available. Please contact CommScope Technical Assistance Center for ordering information.

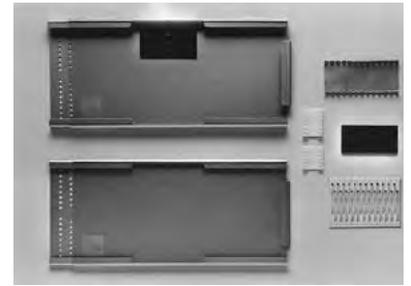
\* Cable clamps must be ordered separately

# 8-Inch FCM Optical Distribution Frame

## Panel Accessories

### Assembled Splice Tray and Chip

Each 8-inch FCM splice panel has eight splice drawers capable of holding up to two single 12-position splice trays or one dual 24-position splice tray for a total of 192 fibers when splicing individual fibers or 384 fibers when performing mass fusion splicing with ribbon fibers.



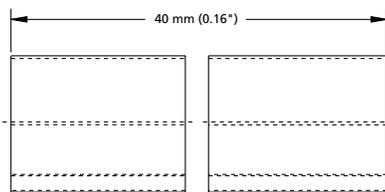
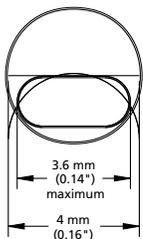
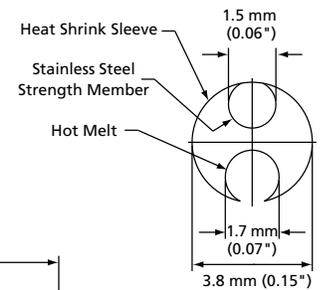
Single and Dual Splice Trays

### Ordering Information

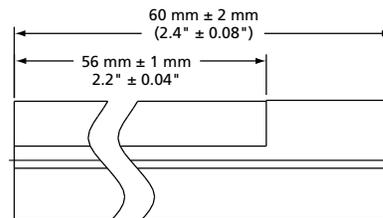
Description	Number of Splices per Tray	Number of Splice Trays per Drawer	Splice Panel Capacity	Catalog Number
<b>12-position splice tray, single height</b>				
Bare fusion	12	2	192	FST-FT
Heat shrink (single fiber fusion)				FST-HS
Mechanical				FST-MT
<b>24-position splice tray, dual height</b>				
Bare fusion	24	1	192	FST-D-FT
Heat shrink (single fiber fusion)				FST-D-HS
Mechanical (Mass fusion)				FST-D-MT

### Splice Protector Sleeve

The splice protector sleeve is constructed to protect a splice after fusion. It is made from heat shrinkable material and contains a built-in strength member for physical protection of the fusion splice. The splice protector sleeve is placed on the fiber before making a splice, moved over the splice when the splice fusion is complete and shrunk into place. They are available in either single fusion or mass fusion sleeves.



Mass Fusion Splice Protector Sleeve  
(FST-ACC006 Shown)



Single Fusion Splice Protector Sleeve  
(FST-ACC001 Shown)

### Ordering Information

Description	Catalog Number
<b>Splice protector sleeve for</b>	
Single fiber – single fusion; 60 mm (2.4") length, 1 each	FST-ACC001
Single fiber – single fusion; 40 mm (1.6") length, 1 each	FST-ACC005
12-fiber ribbon – mass fusion – heat shrink; 40 mm (1.6") length, 1 each	FST-ACC006

# 8-Inch FCM Optical Distribution Frame

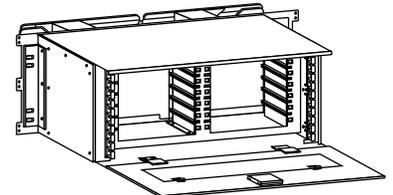
## Value-Added Module (VAM) Chassis

### 8-Inch FCM Standard VAM Chassis – 12 Single Plug-In Modules

The 8-inch FCM standard VAM chassis fits into any open chassis location and ships with appropriate rear cable management. It accommodates a maximum of either 12 plug-in modules, 12 bulkhead plates, 12 blank panels or any combination thereof. The 8-inch rear load chassis\* mounts in EIA or WECO racks. **Compatible with CommScope's rear load frame system only.\***



Standard VAM Chassis



FDF-FCMVAM

### Ordering Information

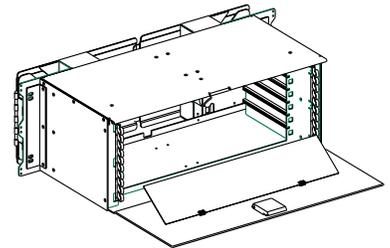
Description	Dimensions (HxWxD)	Catalog Number
<b>8" FCM standard VAM chassis, unloaded;</b> rear cable management and doors attached to module	203 mm x 620 mm x 307 mm (8.0" x 24.4" x 12.1")	FDF-FCMVAM

### 8-Inch FCM WideVAM® Chassis

CommScope's 8-inch WideVAM chassis allows efficient integration of optical components into the frame and provides the utmost protection, modularity and flexibility for all optical component needs. Incorporating 18 front and 10 rear ports, this chassis provides 50 percent more density than the standard FCM VAM chassis.



WideVAM Chassis and Single Module  
(7" H WideVAM Chassis shown)



FDF-FCMWWAM

### Ordering Information

Description	Dimensions (HxWxD)	Catalog Number
<b>8" FCM WideVAM chassis, unloaded;</b> accommodates 6 single WideVAM modules	203 mm x 620 mm x 308 mm (8" x 24.4" x 12.1")	FDF-FCMWWAM

## Value-Added Module (VAM) System

CommScope offers an extensive line of monitor, splitter, WDM and CWDM VAM plug-in modules designed to meet all application needs. Please reference the **Value-Added Module (VAM) System Catalog #101663AE** for details at [www.commscope.com](http://www.commscope.com) or contact CommScope Customer Service.

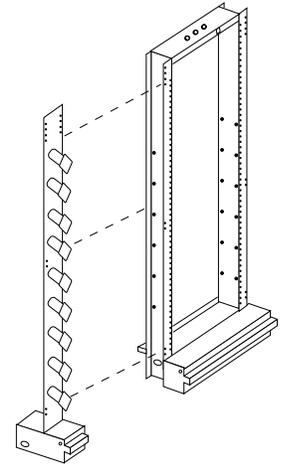
\*Legacy front load panels and accessories remain available. Please contact CommScope Technical Assistance Center for ordering information.

# 8-Inch FCM Optical Distribution Frame

## Frame Accessories

### Interbay Management Panel

The 8-inch FCM standard VAM chassis fits into any open chassis location and ships with appropriate rear cable management. It accommodates a maximum of either 12 plug-in modules, 12 bulkhead plates, 12 blank panels or any combination thereof. The 8-inch rear load chassis\* mounts in EIA or WECCO racks. **Compatible with CommScope's rear load frame system only.\***



Interbay Management Panel

## Ordering Information

Description	Catalog Number
<b>Interbay management panel;</b> includes trough filler insert and lower 5" guard box Use with 356 mm (14") trough only	
2.14 m x 127 mm x 305 mm (7' H x 5" W x 12" D)	E-501-L139

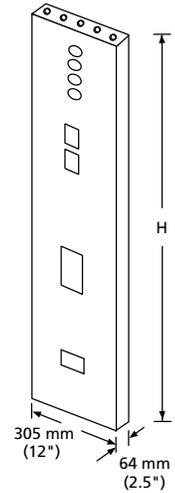
Optional cover kits are available for 14" lower troughs.  
For existing lineups with 6", 8" or 16" lower cable troughs, call CommScope Technical Assistance Center.

# 8-Inch FCM Optical Distribution Frame

## Frame Accessories

### Fiber Optic Terminal Jumper Storage Panel (Rear Facing)

The fiber optic terminal jumper storage panel provides cable management and service loop storage of fiber optic patch cords typically routed between an FCM and fiber optic terminal equipment. The kit contains one storage panel with spools and mounting hardware to secure the panel to the frame. The panel can be installed in existing lineups and mounts on either side of the FCM frame. It attaches easily to 7-, 9- or 11.5-foot frames. CommScope recommends storing excess patch cord slack at the FOT to distribute the slack to multiple locations throughout the central office/headend. The fiber optic terminal storage panel cannot be mounted onto the frame if any cable clamps are present on that side of the frame. **Contact CommScope Technical Assistance Center to determine the optimal storage for your application.**



End Guard

### Ordering Information

Description	Catalog Number
<b>Fiber optic terminal jumper storage panel (rear facing);</b> Includes one storage panel, with spools and mounting hardware	FDF-RFSP

### End Guard

End guards provide protection and a finished appearance at the start and end of frame lineups. They attach to either a frame or an interbay management panel. End guards serve as a mounting place for outlets and switches and are used interchangeably for either left or right applications.

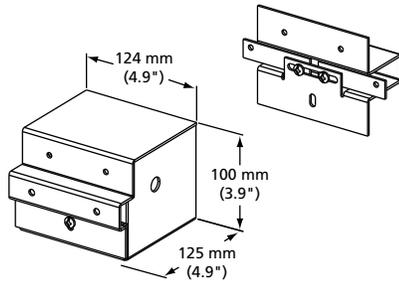
### Ordering Information

Description	Catalog Number
<b>End guard;</b> mounts on IMP or network style frame	
2.14 m x 64 mm x 305 mm (7' H x 2.5" W x 12" D)	UEGP-7PW

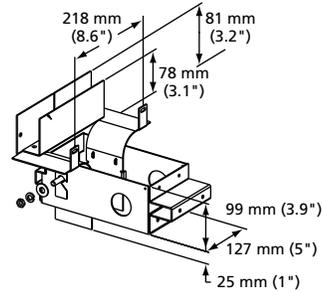
# 8-Inch FCM Optical Distribution Frame

## Frame Accessories

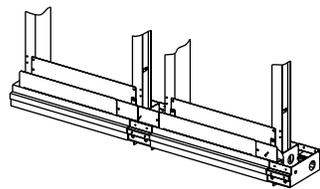
### Guard Box (Underfloor)



Rear Access Underfloor Guard Box  
(Front View)  
FDF-ACC139



Front/Rear Access Underfloor Guard Box  
(Rear View)  
FDF-ACC152



Shown Installed Between Network Frames  
and at End of a Lineup  
(Front View)  
FDF-ACC152

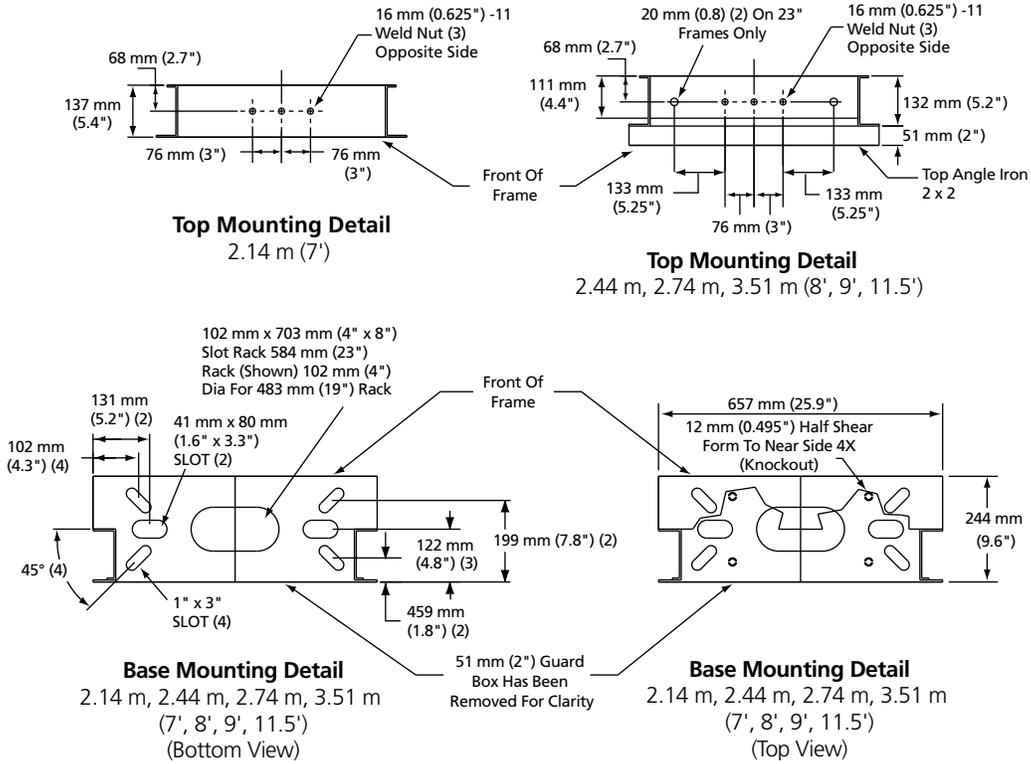
### Ordering Information

Description	Dimensions (HxWxD)	Catalog Number
<b>Rear access only.</b> Used for routing OSP, IFC cable or patch cords from underfloor to the rear of the frame.	100 mm x 125 mm x 125 mm (3.9" x 4.9" x 4.9")	FDF-ACC139
<b>Front and rear access.</b> Used for routing OSP, IFC or patch cords from under floor to the rear of the frame and patch cords from underfloor to the front of the frame.	179 mm x 218 mm x 127 mm (7.1" x 8.6" x 5")	FDF-ACC152

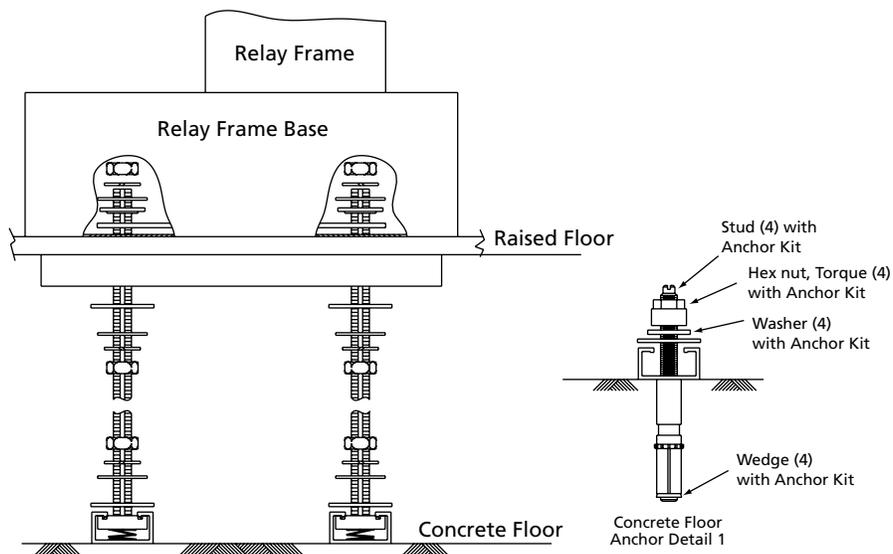
# 8-Inch FCM Optical Distribution Frame

## Frame Accessories

### Frame Installation Kit



Network Type Unequal Flange Frame Mounting Details



# 8-Inch FCM Optical Distribution Frame

## Frame Accessories

### Frame Installation Kit

Frame installation kits may be used on network frames and are seismic zone 4 rated.

### Ordering Information

Description	Catalog Number
<b>Frame installation kit for 2.14 m (7') frames, includes;</b> 1 floor mounting kit 1 top attachment kit for 2.14 m (7') frames 12 frame tie brackets kits 1 frame ground kit for 2.14 m (7') frames	RINST-DSX7-PW
<b>Frame installation kit for 2.74 m (9') and 3.51 m (11.5') frames, includes;</b> 1 floor mounting kit 1 top attachment kit for 2.74 m (9') and 3.51 m (11.5') frames 22 frame tie brackets kits 1 frame ground kit for 2.74 m (9') and 3.51 m (11.5') frames	RINST-DSX9-PW
<b>Universal anchor kit, for all UEF frames includes;</b> 4 anchor assemblies 2 universal hold down bars 8 anchor plate washers 8 shim plates 2 mm (0.063") 4 shim plates 3 mm (0.125")	RINST-FLR
<b>Isolation Pad accomodates:</b> 1 UEF 23" network frame 2 end guards 2 interbay management panels	FDF-ISOTEMPLATE
<b>Underfloor mounting kit</b>	
1/2" threaded rod	RINST-DSXRFL-PW
5/8" threaded rod	FDF-ACC146

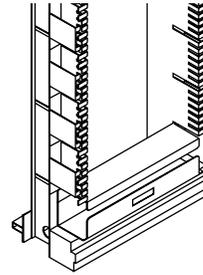
# 8-Inch FCM Optical Distribution Frame

## Frame Accessories

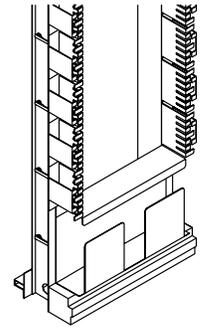
### Horizontal Cable Trough

Lower horizontal cable troughs are always included with fiber frames. They can be purchased separately for special applications.

The upper cable trough is not a standard part of the frame. It should be used in applications in which patch cords need to be brought from the front of the frame to the rear. The upper cable trough is putty white and mounts at the top of the frame. Bend radius limiters are provided on the edges of the trough to maintain minimum bend radius requirements.



152 mm (6")  
Lower Cable Trough  
(E-501-L73 Shown)



356 mm (14")  
Lower Cable Trough  
(E-501-L136 Shown)

### Rack Extenders

This accessory is designed to extend the top of a 7-foot non-seismic UEF rack to the appropriate height overhead.

### Ordering Information

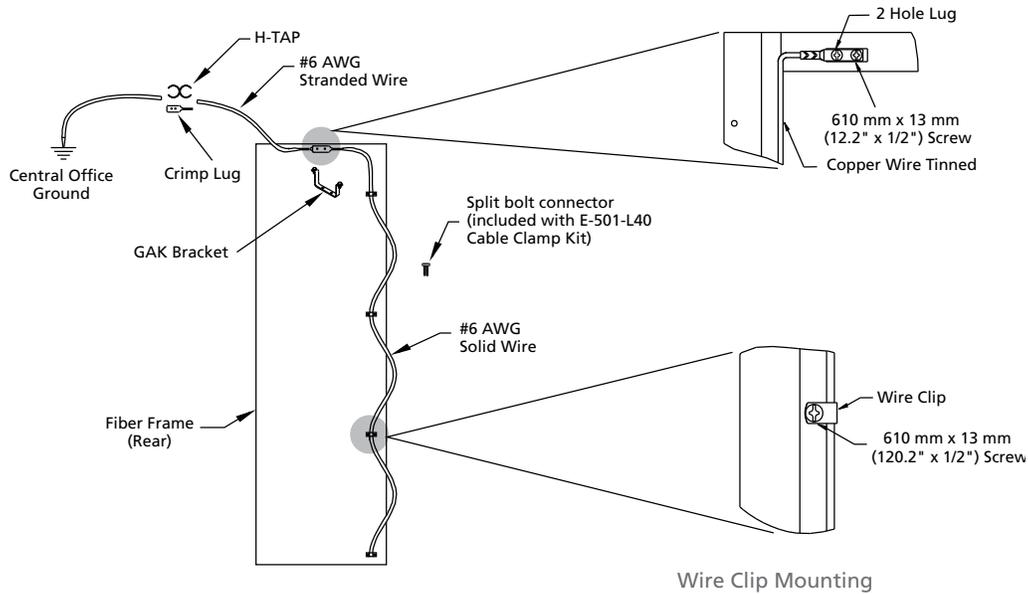
Description	Catalog Number
12" H Network-style rack extender, WECO, PW	RAC-0X0337
24" H Network-style rack extender, WECO, PW	RAC-0X0229
54" H Network-style rack extender, WECO, PW	RAC-0X0230
56" H Network-style rack extender, WECO, PW	RAC-0X0338

# 8-Inch FCM Optical Distribution Frame

## Frame Accessories

### Grounding Kit

The fiber distribution frame is equipped with a grounding kit designed with mechanical (clamps, straps, connectors) fittings. Order this kit only if you are building a frame using your own frame. When connecting frame ground to office ground conductor, an H-TAP bonding kit should also be ordered.



Grounding Kit Accessories

Grounding kit includes:		H-TAP bonding kit includes:		GAK grounding kit includes:	
2-hole terminal lug	1 each	H-TAP	1 each	Bracket	1 each
#6 AWG copper tinned wire	13 feet	H-TAP insulated cover	1 each	Clamping bolt	2 each
Wire clips	8 each	2-hole terminal crimp	3 each	Nut	2 each
#12-24 x 1/2" screws	10 each	Terminal lug, screw	4 each	Screw	10 each
		#6 AWG stranded insulated wire	2 feet	Wire clip	8 each
		Star washer	6 each	H-TAP	1 each
		No-ox grease	1 tube	#6 AWG solid copper tinned wire	13 feet

### Ordering Information

Description	Catalog Number
Grounding kit	E-501-L37*
H-TAP bonding kit	E-501-L166
GAK grounding kit	GAK

\* Included with CommScope's 8-inch FCM fiber frame

# 8-Inch FCM Optical Distribution Frame

## Panel Accessories

### Vertical Cable Guide (VCG) Kit

There are times when a single panel must be mounted in a frame without a cable management system. An individual 8-inch VCG kit is available to manage patch cords when mounting a panel in a 23-inch frame.

### Ordering Information

Description	Catalog Number
<b>VCG kit;</b> Contains two 203 mm (8") front vertical cable guides and screws	FDF-ACC145

### Blank Panel

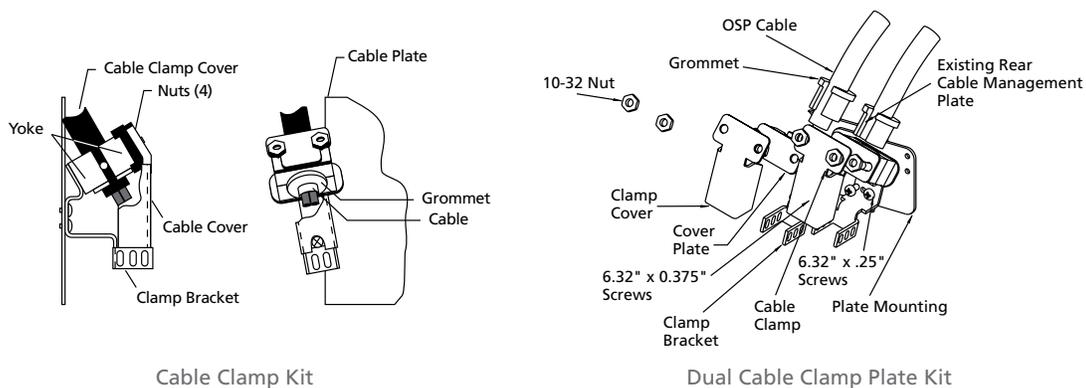
The blank panel occupies one panel space in either a front load or rear load frame.

### Ordering Information

Description	Catalog Number
<b>Blank panel,</b> 203 mm (8") H	E-501-L39

### Cable Clamp Kit and Dual Cable Clamp Plate Kit

The cable clamp kits provide a means of securing the end of an outside plant (OSP) or intrafacility cable (IFC) to the cable plate. Cable diameters must be between 10 mm to 31 mm (0.4 to 1.2-inch). Additional components are included with the OSP clamp kit for grounding metallic parts of the cable such as metallic strength members or metallic sheaths.



### Ordering Information

Description	Cable Outer Diameter Supported	Catalog Number
<b>8" FCM cable clamp kit</b> for IFC and OSP cable	10 mm – 31 mm (0.4" – 1.2")	E-501-L40
<b>8" FCM dual cable clamp plate kit</b> doubles the number of clamping positions on the frame from 32 to 64; kit includes plate only	–	E-501-L41

# 8-Inch FCM Optical Distribution Frame

## Frame Accessories

### Standard Cross-Connect Patch Cord Lengths

Number of Frames	Approximate Patch Cord Length Meters (Feet)
1	5 m (16.4')
2	6 m (19.7')
3	6 m (19.7')
4	7 m (23')
5	8 m (26.2')
6	9 m (29.5')

For recommended cross-connect methods, refer to FCM user manual ADCP-90-140.  
For installation instructions for the 8-inch FCM, refer to user manual ADCP-90-113.

### Ordering Information for Patch Cords and Attenuators

CommScope offers a comprehensive line of cable assembly and accessory products including patch cords, IFC assemblies, and adapters to meet the demanding needs of today's network. Please refer to the Fiber Cable Assemblies Catalog #102880AE at [www.commscope.com](http://www.commscope.com) for more detailed information.

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