

# LSX Optical Distribution Frames

**COMMSCOPE®**  
an Amphenol company

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# Introduction

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## Frame

CommScope's LSX solution is engineered to support a wide range of termination, splicing, and storage applications. Each frame option adheres to industry standards, ensuring consistency in patch cord routing, slack management, and fiber protection. The frame is shipped complete with front vertical cable guides along with upper and lower cable troughs.

## Termination panel

The LSX panel is available in adaptor only versions with in configurations of 24, 48, 72, 96, 144, and 288. Preterminated panels are available in 48, 96, 144, and 288 fiber versions with either intrafacility (IFC) or outside plant (OSP) cables for ease of installation.

## Termination/Splice panel

CommScope's termination/splice panel combines both termination and splicing functions within a single chassis. Each panel comes factory pre-loaded with stranded or ribbon pigtailed for convenience.

## Value-added module (VAM) chassis

CommScope's solution adds signal management and enhancement functions—such as splitters, couplers, and wavelength division multiplexers—to optimize fiber network performance. These features provide nonintrusive access to optical signals for monitoring and testing signal integrity. The LGX-compatible VAM chassis is designed to accommodate a variety of splitter and WDM modules.

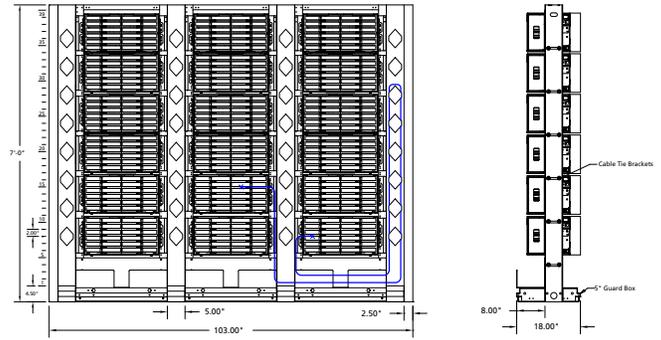
## Product overview

Recommended applications	Small to medium fiber count applications. Minimal cable management features. Lowest cost solution.
Description	LGX compatible
Number of fibers, future growth potential	Up to 5,000
Interconnect	Good
Cross-connect	Good, minimal rear cable management
Accommodates on-frame splicing	Good
Accommodates off-frame splicing	Good
Rear access	Must have full access to front and rear
Density – terminations per frame	1,008 terminations per frame
Front access to rear connector	No
VAM capabilities	Yes
Slack storage location	Utilizes drip loop method or interbay management panel
Connector access	Straight adapter

\* LGX is a registered trademark of Furukawa Electric North America.

## HIGH-DENSITY DISTRIBUTION FRAME SOLUTION (USING 288-TERMINATION/SPLICE PANEL)

The termination and splice LSX-288 solution utilizes a traditional frame designed to fit a variety of termination, splice and storage applications. This front load frame is built to ensure commonality with patch cord routing, slack storage and fiber protection. Available accessories include panels, lower trough, interbay management panels (IMPs) and end guards.

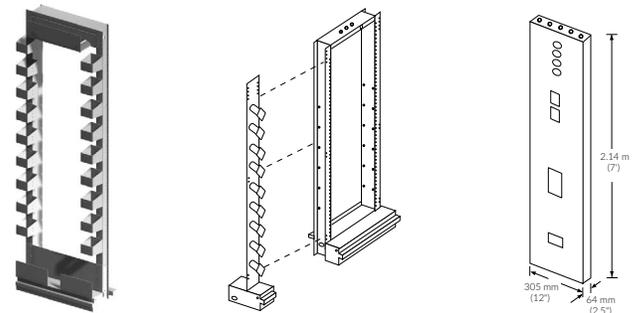


CommScope's recommended fiber frame lineup uses three frames with 1.7 mm fiber jumpers to maintain the industry standard 2-inch patch cord pile-up

ORDERING INFORMATION		
DESCRIPTION	DIMENSIONS (H X W X D)	CATALOG NUMBER
Empty rack-WECO 7' network non-seismic rack, front 8"D GB, (39) 2.00" WECO mtg. spaces	2.1 m x 660 mm x 381 mm (7' x 26" x 15")	RAC-7A0160
Lower horizontal cable trough	203.2 mm x 203.2 mm (8" W x 8" D)	E-501-11115
5"D x 26"W rear guard box	660 mm x 127 mm (26" W x 5" D)	RAC-0X0439
15"D interbay management panel, 8"D spools, overhead/under floor access	2.1 m x 127 mm x 381 mm (7' x 5" x 15")	E-501-L139-HD
5" rear guard box	127 mm x 127 mm (5" W x 5" D)	RAC-0X0440
15"D end guard-universal-style end guard	2.1 m x 64 mm x 381 mm (7' x 2.5" x 15")	RAC-7B0162
3" universal end guard extender	2.1 m x 64 mm x 76 mm (7' x 2.5" x 3")	E-501-12002

## TRADITIONAL LSX UNIVERSAL FIBER DISTRIBUTING FRAME SOLUTION

The traditional LSX universal frame provides the framework for managing a cross-connect or interconnect fiber system. Use this frame for applications requiring lower density panels (12-144 terminations).



E-501-LGX  
(Includes vertical cable guides)

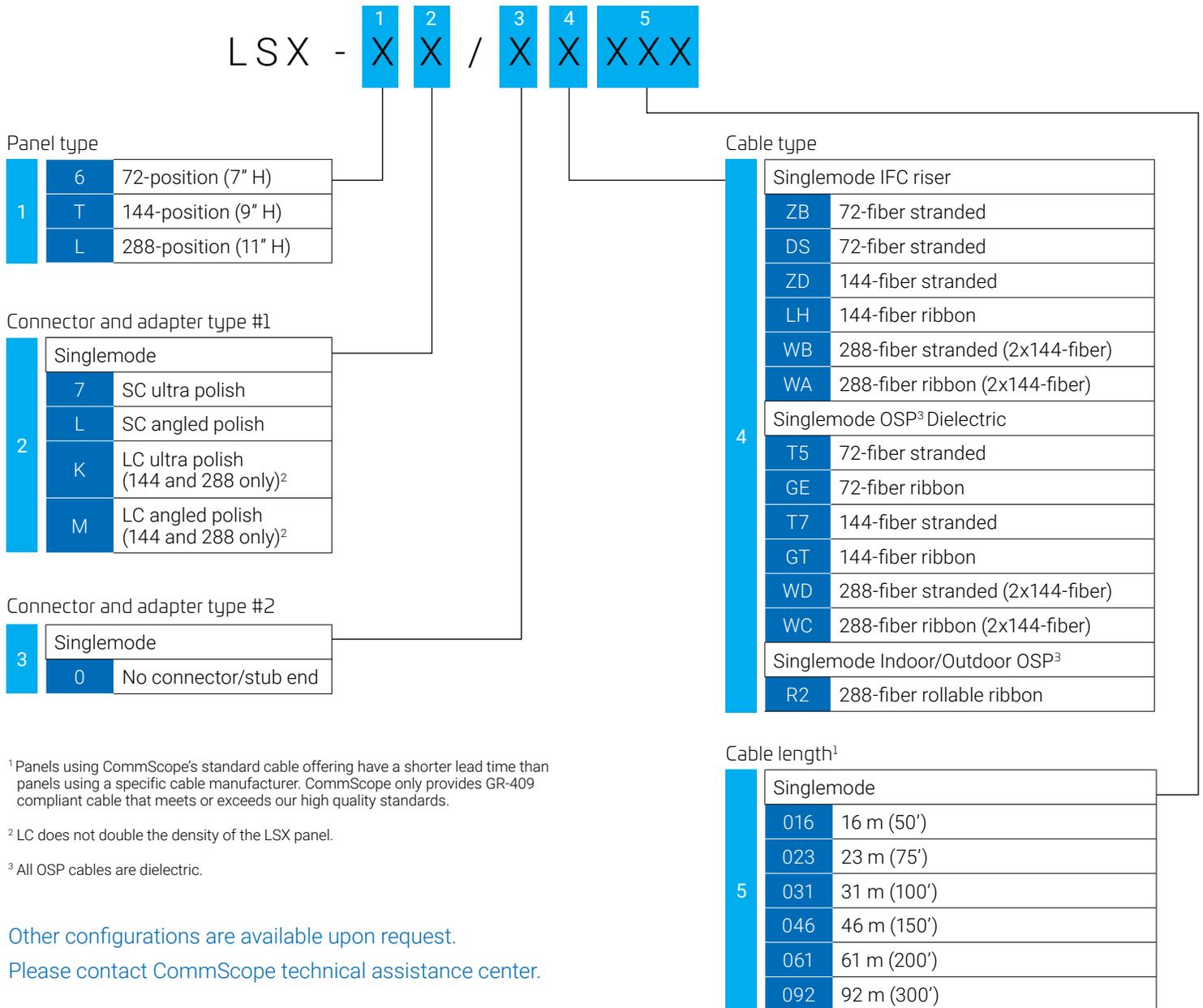
E-501-L139-A

UEGP-7PW

ORDERING INFORMATION		
DESCRIPTION	DIMENSIONS (H X W X D)	CATALOG NUMBER
Traditional LSX universal seismic frame, WECO, putty white (includes anchor bolts, front troughs and vertical cable guides)	(7' x 23" x 12") 2.14 m x 584 mm x 305 mm	E-501-LGX
Network style UEF seismic rack, WECO, putty white (includes anchor bolts)		RAC-7A0498
Lower Horizontal Cable Trough	(6" x 23" x 5") 152 mm x 584 mm x 127 mm	E-501-L73
Interbay management panel (IMP)	(7' x 5" x 12") 2.14 m x 127 mm x 305 mm	E-501-L139-A
End guards (mounts on an IMP or network frame)	(7' x 2.5" x 12") 2.14 m x 64 mm x 305 mm	UEGP-7PW

## PRETERMINATED FIBER TERMINATION PANELS WITH MULTIFIBER CABLE

The LSX panel can be loaded with intrafacility cable (IFC). The panel adapts to 19- or 23-inch rack mounting, WECCO or EIA spacing. The 288-position panel can only be mounted in a 23-inch rack.



<sup>1</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.

<sup>2</sup> LC does not double the density of the LSX panel.

<sup>3</sup> All OSP cables are dielectric.

Other configurations are available upon request.  
Please contact CommScope technical assistance center.

### DEFINITION OF VARIABLES

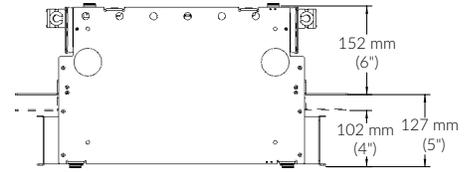
1	Connector and adapter type #1—specific adapter/connector type required at the LSX
2	Connector type #2—specific connector type required at the far end opposite the LSX
3	Cable type—type of cable to be terminated to the LSX
4	Cable length required—length of the cable terminated to the LSX

## ADAPTER-ONLY FIBER TERMINATION PANELS

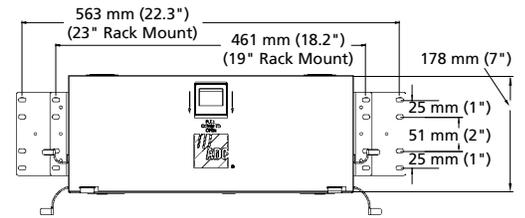
The LSX panel has the same mounting dimensions as an LGX compatible panel. Panels adapt to 19- or 23-inch rack mounting, WECCO or EIA hole spacing.

ORDERING INFORMATION		
NUMBER OF TERMINATIONS	ADAPTER TYPE	CATALOG NUMBER
24 44 mm (1.75") height	Singlemode	
	SC ultra polish	LSX-170000
	SC angled polish	LSX-1L0000
48 89 mm (3.5") height	Singlemode	
	SC ultra polish	LSX-270000
	SC angled polish	LSX-2L0000
72 178 mm (7") height	Singlemode	
	SC ultra polish	LSX-670000
	SC angled polish	LSX-6L0000
96 178 mm (7") height	Singlemode	
	SC ultra polish	LSX-770000
	SC angled polish	LSX-7L0000
144 228 mm (9") height	Singlemode	
	SC ultra polish	LSX-T70000
	SC angled polish	LSX-TL0000
	LC ultra polish <sup>1</sup>	LSX-TK0000
	LC angled polish <sup>1</sup>	LSX-TM0000
288 279 mm (11") height	Singlemode	
	SC ultra polish	LSX-L70000
	SC angled polish	LSX-LL0000
	LC ultra polish <sup>1</sup>	LSX-LK0000
	LC angled polish <sup>1</sup>	LSX-LM0000

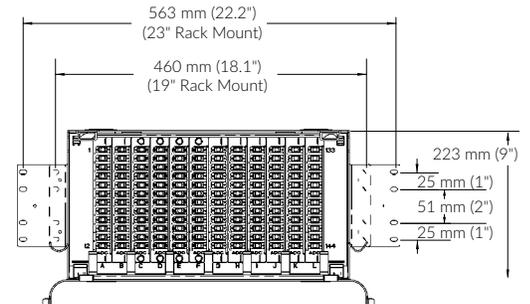
<sup>1</sup> LC Connectors do not double the density of the LSX panel



LSX panel  
(Top view)



72- or 96-position panel  
(Front view)



144-position panel  
(Front view)

## PRETERMINATED FIBER TERMINATION/SPLICE PANELS WITH PIGTAILS

LSX preterminated fiber termination/splice panels are available with a splicing area integrated into the panel. These panels include a rear flip-down splicing compartment. The panels can be ordered with 12-fiber ribbon or 12-fiber stranded pigtails.



288-Position termination/splice panel

ORDERING INFORMATION			
NUMBER OF TERMINATIONS	ADAPTER TYPE	LOADED WITH 12-FIBER RIBBON PIGTAILS	LOADED WITH 12-FIBER STRANDED PIGTAILS
144 228 mm (9") height 15" deep, 19/23" rack mount	Singlemode		
	SC ultra polish	LSX-T75123-A-SPL	LSX-T71122-A-SPL
	SC angled polish	LSX-TL5123-A-SPL	LSX-TL1122-A-SPL
	LC ultra polish <sup>1</sup>	LSX-TK5123-A-SPL	LSX-TK1122-A-SPL
	LC angled polish <sup>1</sup>	LSX-TM5123-A-SPL	LSX-TM1122-A-SPL
288* 279 mm (11") height 15" deep, 23" rack mount only	Singlemode		
	SC ultra polish	LSX-L75243-A-SPL	LSX-L71242-A-SPL
	SC angled polish	LSX-LL5243-A-SPL	LSX-LL1242-A-SPL
	LC ultra polish <sup>1</sup>	LSX-LK5243-A-SPL	LSX-LK1242-A-SPL
	LC angled polish <sup>1</sup>	LSX-LM5243-A-SPL	LSX-LM1242-A-SPL

<sup>1</sup> LC Connectors do not double the density of the LSX panel

\* 288 Termination /splice panel does not fit 19-inch frames. For 23-inch frames only.

## LSX OPTICAL DISTRIBUTION FRAME FIBER TERMINATION PANELS FOR CMOD CABLE ASSEMBLIES

The LSX ODF panels update the traditional LGX-style chassis and bulkhead design to accommodate CMOD cable assemblies (see pages 10–14), delivering fast, plug-and-play installation for multi-fiber cables. Three panel options are available to support a wide range of MPO, VAM, and pre-terminated cable applications.

- Designed to be mounted in a 19" or 23" rack or cabinet.
- Up to 144 LC or 72 SC terminations in 6-position CMOD panel
- Up to 288 LC or 144 SC terminations in 12-position CMOD panel
- Up to 432 LC or 216 SC terminations in 18-position CMOD panel
- Each panel opening fits a cabled module, MPO module, or VAM module with tray adapter insert.
- Modules may be mixed and matched in the same chassis.
- Panels include front and rear fiber management.

### Ordering information

Description	CMOD Capacity	Dimensions (H x W x D)	Part number
LSX CMOD PANEL, EMPTY	6	5.25" x 19/23" x 11.72" (133 x 483/584 x 298 mm)	LSX-300000-CMOD
	12	9" x 19/23" x 11.72" (229 x 483/584 x 298 mm)	LSX-T00000-CMOD
	18	9" x 19/23" x 11.72" (229 x 483/584 x 298 mm)	LSX-W00000-CMOD



LSX-T00000-CMOD  
(Front)



LSX-T00000-CMOD  
(Rear)



LSX-300000-CMOD  
(Front)



LSX-300000-CMOD  
(Rear)

## CABLED MODULE (CMOD) CABLE ASSEMBLIES

### Faster Installs, Lower Costs, Greater Reliability

CommScope's CMODs are designed to transform fiber deployments by delivering significant time and cost savings for network operators. Instead of terminating individual connectors one by one, installers can route a 24-fiber cable to any access tray in a universal chassis and connect all 24 fibers with a single click. This streamlined approach eliminates the complexity of installing 24 separate connectors—saving hours of labor and reducing installation costs.

For larger builds, a 144-fiber LC CMOD cable assembly includes six pre-terminated 24-fiber modules secured to a single 144-fiber cable with a stub at the far end, ensuring high-density connectivity with minimal effort.



LC Cabled Module with Preterminated IFC

### Why Choose CMODs?

- **Rapid Installation:** CMODs snap into place on the access tray, cutting installation time dramatically.
- **Error Reduction:** Simplified connections reduce wiring mistakes and minimize the risk of disturbing adjacent fibers.
- **Flexible Design:** Each assembly uses reduced bend radius fiber and optimized breakout lengths for universal compatibility across any chassis in the frame.

### Craft-Friendly Features

- Available in singlemode LC and SC configurations.
- Clearly labeled adapter ports for quick identification.
- Includes the required cable clamp for NG4access frames.
- Supports multiple cable types: riser-rated and indoor/outdoor OSP.
- Choose from ribbon or loose tube stranded construction, with ribbon options in flat matrix or rollable designs.

With CMODs, operators gain speed, reliability, and scalability—all engineered for the demands of modern fiber networks.



LC Cabled module with 24-fiber microcable

## CMOD CABLE ASSEMBLIES – LOOSE TUBE STRANDED

### ORDERING INFORMATION

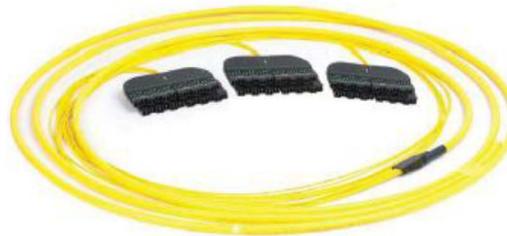
Description	Cable Count	Connector Style	Part Number	Cable Diameter	
CMOD Cable Assembly, <b>Loose tube stranded</b> Indoor/Outdoor OSP, 120" CMOD Breakout Length	72	SC/UPC	NG4-CMD70GLXXX	11.9 mm	0.47"
		SC/APC	NG4-CMDLOGLXXX		
		LC/UPC	NG4-CMDKOGGLXXX		
		LC/APC	NG4-CMDMOGLXXX		
	144	SC/UPC	NG4-CMD70HLXXX	17.7 mm	0.70"
		SC/APC	NG4-CMDLOHLXXX		
		LC/UPC	NG4-CMDKOHGLXXX		
		LC/APC	NG4-CMDMOHLXXX		

Description	Cable Count	Connector Style	Part Number	Cable Diameter	
CMOD Cable Assembly, <b>Loose Tube Stranded</b> IFC Riser, 120" CMOD Breakout Length	144	SC/UPC	NG4-CMD70HQXXX	17.7 mm	0.70"
		SC/APC	NG4-CMDLOHQXXX		
		LC/UPC	NG4-CMDKOHQXXX		
		LC/APC	NG4-CMDMOHQXXX		

XXX = Length in Meters (e.g. 050 = 50 Meters)

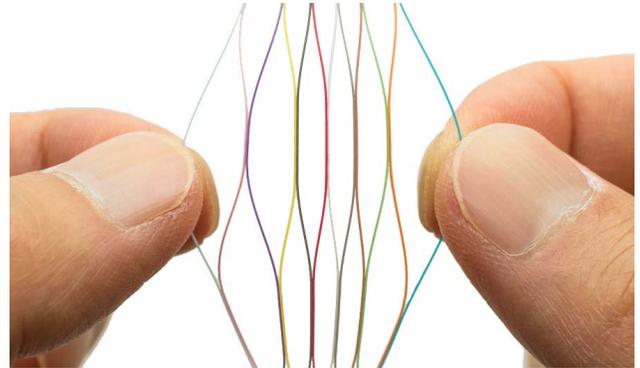
#### Standard Lengths meters (feet)

16 (50')  
23 (75')  
31 (100')  
46 (150')  
61 (200')  
77 (250')  
92 (300')  
122 (400')  
138 (450')  
153 (500')  
183 (600')  
214 (700')  
244 (800')  
275 (900')  
305 (1000')



IFC Riser CMOD Cable Assembly

## CMOD CABLE ASSEMBLIES – ROLLABLE RIBBON



Rollable Ribbon Cable

### ORDERING INFORMATION

Description	Cable Count	Connector Style	Part Number	Cable Diameter	
CMOD Cable Assembly, <b>Rollable Ribbon</b> Indoor/Outdoor OSP, 70" CMOD Breakout Length	72	SC/UPC	NG4-CMD70RGXXX	10.5 mm	0.41"
		SC/APC	NG4-CMDLORGXXX		
	144	LC/UPC	NG4-CMDKOR3XXX	12.5 mm	0.49"
		LC/APC	NG4-CMDMOR3XXX		
	288	SC/UPC	NG4-CMD70R4XXX	12.5 mm	0.49"
		SC/APC	NG4-CMDLOR4XXX		
	432	LC/UPC	NG4-CMDKOR5XXX	15.5 mm	0.61"
		LC/APC	NG4-CMDMOR5XXX		

XXX = Length in Meters (e.g. 050 = 50 Meters)

#### Standard Lengths meters (feet)

16 (50')  
 23 (75')  
 31 (100')  
 46 (150')  
 61 (200')  
 77 (250')  
 92 (300')  
 122 (400')  
 138 (450')  
 153 (500')  
 183 (600')  
 214 (700')  
 244 (800')  
 275 (900')  
 305 (1000')



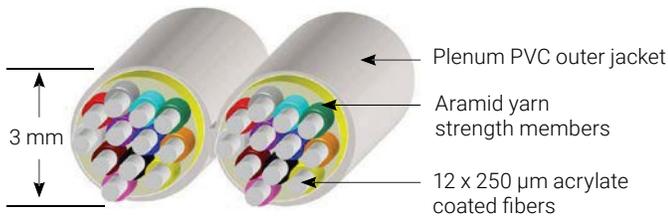
Indoor/Outdoor CMOD Cable Assembly

## CABLED MODULES WITH 24-FIBER MICROCABLE

For LC configurations, a single cabled module is connected to a 24-fiber microcable. For SC configurations, two cabled modules are connected to a 24-fiber microcable. The 24-fiber microcable is a plenum rated dual zip-cable containing reduced bend radius 250 micron fiber in a loose tube design. The 24-fiber microcable has the same compression, tensile strength and crush rating as conventional IFC cable and is fully compliant with GR-409. It can be secured to overhead cable racking or is flexible to be placed in FiberGuide or any fiber cable management system. Cabled modules are available with a stub end or with connectors on the far end. The breakout length for 24 fiber microcable IFC with far end connectors is 45 inches. This breakout length will accommodate all legacy CommScope ODF solutions however, a fanout mounting bracket kit must be ordered separately to match the far end clamping requirements.



Two SC cabled modules with 24-fiber microcable  
Note: Two cabled modules are shown stacked for above photo.



### Ordering information

NG4 - CMD   M2

#### Cabled module connector type #1

Singlemode	
K	LC ultra polish
M	LC angled polish
7	SC ultra polish
L	SC angled polish

#### Far end connector type #2

Singlemode	
0	No connector/stub end
K	LC ultra polish****
M	LC angled polish****
7	SC ultra polish****
L	SC angled polish****
N	Cabled Module**
E	MPO Connector

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

016	16 m (50')
023	23 m (75')
031	31 m (100')
046	46 m (150')
061	61 m (200')

#### Cable type

M2	24-fiber microcable
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\*\* Far end cabled module connector type is always same as type #1 connector type

\*\*\* Additional lengths available upon request

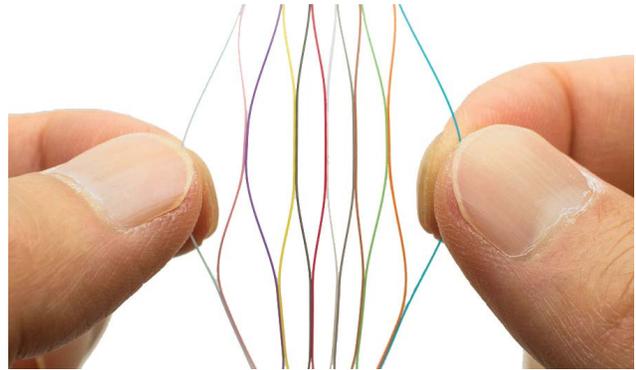
\*\*\*\* Far End Fanout 900um upjacketing.

Contact CommScope's Technical Assistance Center for availability of other upjacketing options.

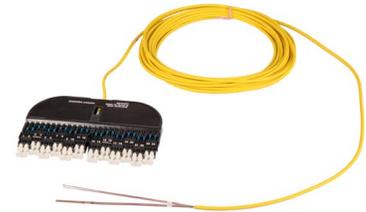
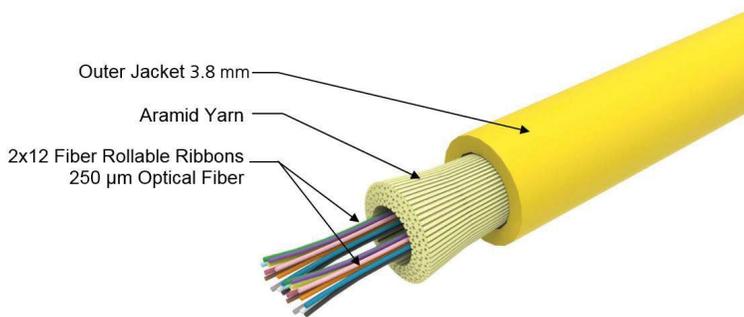
## CABLED MODULES WITH 24-FIBER ROLLABLE RIBBON CABLE

For LC configurations, a single cabled module is connected to a 24-fiber Rollable ribbon. The 24-fiber rollable ribbon is a plenum rated cable containing reduced bend radius 250 micron rollable fiber in a loose tube design.

The 24-fiber cable is flexible enough to be placed in FiberGuide or any fiber cable management system. Cabled modules with rollable ribbon are available with a stub end.



Rollable Ribbon Cable



LC cabled module with preterminated IFC

### Ordering information

Description	Cable Count	Connector Style	Part Number	Cable Diameter	
				3 mm	0.21"
24F CMOD Cable Assembly, <b>Rollable Ribbon</b> IFC Riser	24	LC/UPC	NG4-CMDKOR2XXX	3 mm	0.21"
		LC/APC	NG4-CMDMOR2XXX		

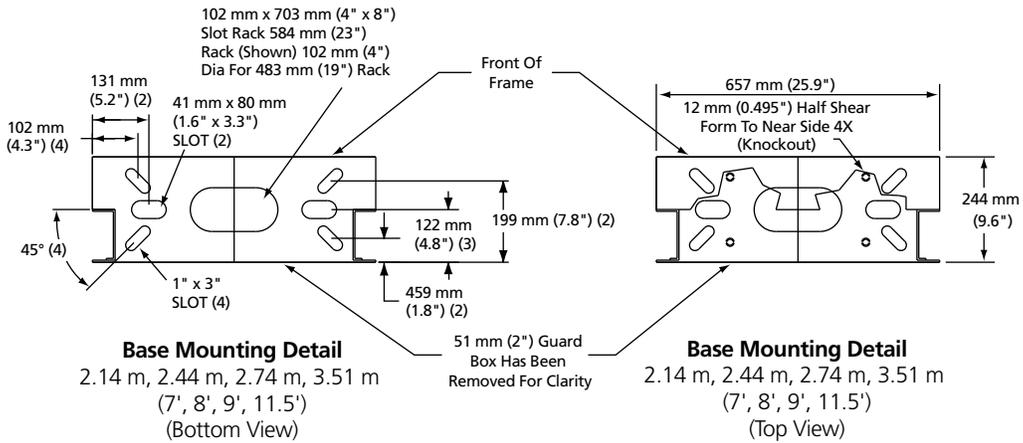
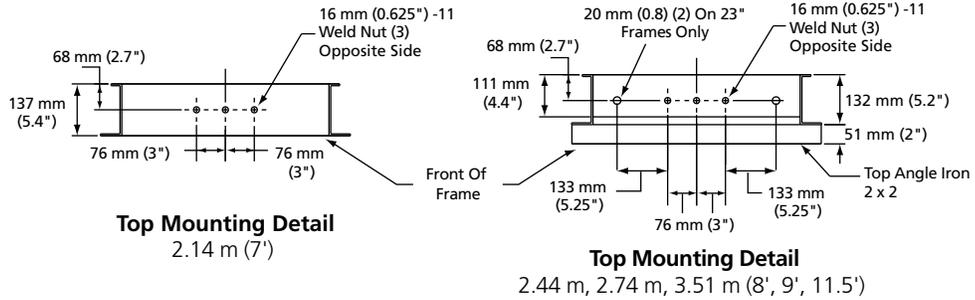
XXX = Length in Meters (e.g. 050 = 50 Meters)

### Standard Lengths meters (feet)

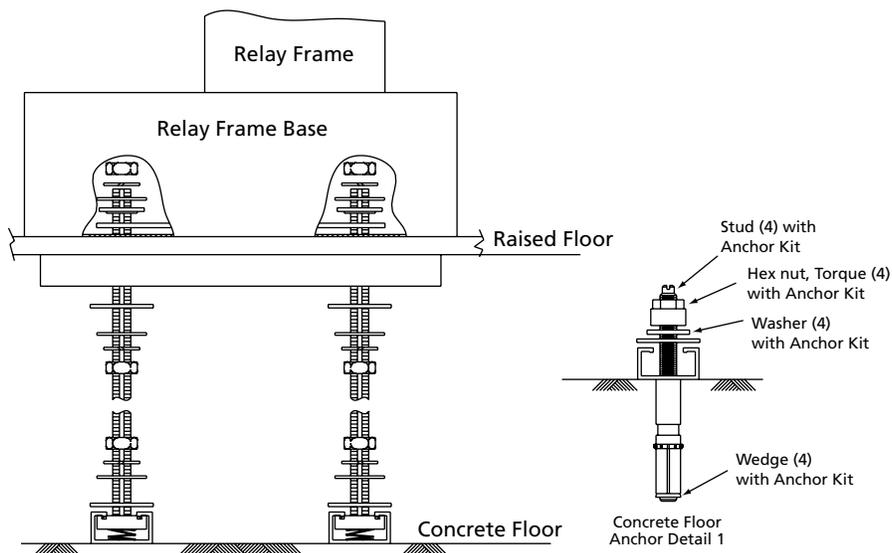
- 8 (25')
- 16 (50')
- 23 (75')
- 31 (100')
- 46 (150')
- 61 (200')

# Frame Accessories

## FRAME INSTALLATION KIT



### Network Type Unequal Flange Frame Mounting Details



Underfloor Mounting Kit

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

<b>ORDERING INFORMATION</b>	
<b>DESCRIPTION</b>	<b>CATALOG NUMBER</b>
<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>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

# Panel accessories

## CABLE CLAMP KIT AND VERTICAL CABLE GUIDE

The cable clamp kit provides a means of securing the end of an OSP or IFC cable to the side of an LSX panel. The vertical cable guide protects and manages jumpers on front of the frame.

ORDERING INFORMATION	
DESCRIPTION	CATALOG NUMBER
Cable clamp kit includes 1 dual bracket and 1 cable clamp	LSX-CBLCLMPKIT
Vertical cable guide kit includes 2 cable rings and appropriate hardware	LSX-ACCVCGKIT

## STANDARD CROSS-CONNECT PATCH CORD LENGTHS

NUMBER OF FRAMES	APPROXIMATE PATCH CORD LENGTH METERS (FEET)
1	4 m and 6 m (13.1' and 19.7')
2	6 m (19.7')
3	6 m and 7 m (19.7' and 23')
4	7 m and 8 m (23' and 26.2')
5	8 m and 9 m (26.2' and 29.5')
6	9 m (29.5')

For recommended cross-connect methods and installation instructions, refer to LSX user manual.

## ORDERING INFORMATION FOR PATCH CORDS AND ATTENUATORS

CommScope offers a comprehensive line of cable assembly and accessory products including patch cords, IFC assemblies, attenuators.

Please visit [www.commscope.com](http://www.commscope.com) or contact customer service.

CommScope pushes the boundaries of communications technology with game-changing ideas and ground-breaking discoveries that spark profound human achievement. We collaborate with our customers and partners to design, create and build the world's most advanced networks. It is our passion and commitment to identify the next opportunity and realize a better tomorrow. Discover more at [commscope.com](https://commscope.com)



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