

# Charles Fiber Rack Solutions (CFRS)

## Flexible rackmount panels for Patch, Splice, and Splitter capabilities in a Fiber Optic Network

Charles Fiber Rack Solutions (CFRS) provide flexible, multi-functional panels for patch, splice and splitter requirements within virtually any application. The efficient design of the splice area and bulkhead allows for maximum density while using just 1RU or 2RU of valuable rack space.

CFRS feature aluminum construction with a grey powder coated finish. A swing-out shelf allows technicians easy access to splice/splitter trays. A hinged tray design facilitates tray access without disturbing existing splices. The rear of the rack panel is open, with cable management railings to neatly organize fiber cable in rackmount enclosures. Panels are 19" EIA, with adaptable brackets for mounting in either 19" or 23" racks.



## Applications

CFRS Panels are ideally suited for outside plant, central office, cell sites, CATV, MDU, MTSO or other environments where the customer requires fiber bandwidth for optical distribution/cross-connect.

## Features

- Robust swing-out shelf for easy access to bulkheads and technician friendly splice area
- Sturdy yet lightweight aluminum construction
- Utilizes Charles Fiber Splice Trays (CFST) or Splitter Trays (hinged)
- Cable/bend radius management & multiple cable tie-down locations
- 19" or 23" Mounting Brackets
- Scalable to help manage network growth / costs
- Pre-integrated configurations accelerate deployment
- Simple installation and ease of use
- Rugged overall construction and durability



Swing Out Shelf and Hinged Splice/Splitter Trays

## Specifications

	<b>CFRS 1RU</b>	<b>CFRS 2RU</b>
Dimensions (HxWxD):	1.75" x 17" x 11" (44mm x 432mm x 280mm)	3.5" x 17" x 11" (88mm x 432mm x 280mm)
Weight:	5 lbs. (2.27kg)	6 lbs. (2.72kg)
Rackspace:	1RU EIA	2RU EIA
Construction:	Aluminum with Grey Powder Coated Finish	Aluminum with Grey Powder Coated Finish
Mounting:	Adaptable brackets for 19" or 23" rack mounting	Adaptable brackets for 19" or 23" rack mounting
Connector Type:	SC or LC	SC or LC
Capacity:	24 ports	48 ports
Environmental:	0 to 90% Humidity (Non-Condensing), -5 to +55 °C Temperature Range	0 to 90% Humidity (Non-Condensing), -5 to +55 °C Temperature Range
Compliance:	NEBS	NEBS

Left: CFRS 1RU Right: CFRS 2RU



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USA

**Charles**

# CFRS Ordering Information

## Part Number Configurator:



**A**

### Panel Type

C = Combo - Patch and Splice  
 P = Patch Only (Patch Plates included only)  
 S = Splitter  
 T = Pre-Terminated  
 Z = Empty Shelf

**B**

### Height (RU)

1 = One Rack Unit (1RU)  
 2 = Two Rack Units (2RU)

**C**

### Port Capacity

06 = 6 Ports  
 12 = 12 Ports  
 24 = 24 Ports  
 36 = 36 Ports\*  
 48 = 48 Ports\*  
 XX = NONE

**D**

### Patch Plate Style

01 = 6 Port SC/UPC  
 02 = 6 Port SC/APC  
 03 = 6 Port SC Multi-Mode (Beige)  
 04 = 8 Port SC/UPC  
 05 = 8 Port SC/APC  
 06 = 12 Port SC/UPC  
 07 = 12 Port SC/APC  
 08 = 12 Port LC/UPC  
 09 = 12 Port LC/APC  
 XX = NONE

**E**

### Splitter Style & Quantity

A = Qty. 1  
 1x8 Splitter Tray  
 B = Qty. 1  
 1x16 Splitter Tray  
 X = NONE

**F**

### Splice Tray Type & Quantity

1 = 1 Hinged Splice Tray  
 2 = 2 Hinged Splice Trays  
 3 = 3 Hinged Splice Trays\*  
 4 = 4 Hinged Splice Trays\*  
 X = NONE

**G**

### Fanout / Cable Stub Type

A = Fanout, Loose-tube, 900 micron (Qty. to match patch plates)  
 B = Fanout, Ribbon, 900 micron (Qty. to match patch plates)  
 C = Cable Stub, Armored, Loose Tube  
 D = Cable Stub, Armored, Ribbon  
 E = Cable Stub, All Dielectric Loose Tube Cable  
 F = Cable Stub, All Dielectric Ribbon Cable  
 X = NO FIBER

**H**

### Fanout / Cable Stub Length

A = 10' (3 meter)  
 B = 25'  
 C = 50'  
 D = 100'  
 X = NONE

**\* Option available only on 2RU Unit (CFRS 2RU)**

Please call Charles Industries at 847-806-6300 for other additional options or custom configuration requirements.

## EXAMPLE PART NUMBERS

**Part Number:** CFRS-C11202X1AA

### Description:

Charles Fiber Rack Solution, combo panel - patch/splice, 1RU, 12 ports, SC/APC, one (1) hinged splice tray, one (1) 12-fiber loose tube 900 micron 3 meter fanout

**Part Number:** CFRS-C24806X2AB

### Description:

Charles Fiber Rack Solution, combo panel - patch/splice, 2RU, 48 ports, SC/UPC, two (2) hinged splice trays, one (1) 48-fiber loose tube 900 micron 25 foot fanout

## 1RU/2RU Cable Manager Accessory Kit

Part #: CFRS-CBLMNGKIT1



- Tray organizes and protects fanout cables
- Mounts to front of CFRS using existing hole placements
- Includes D-clips, ID labels and mounting hardware



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