

C2X Fiber Distribution Panel

Ordering Guide



Amphenol
NETWORK SOLUTIONS™

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Overview

The C2X chassis is a streamlined bulkhead solution capable of supporting multiple configurations such as: patch, patch/splice or pre-terminated.

Available in 1RU, 2RU, 3RU and 4RU, the C2X is adaptable for use in any network application. Mount the C2X chassis in a 19-inch or 23-inch rack or cabinet with the reversible mounting brackets. Deploy all MPO trunk cable types, fiber up to 3.0 mm, and any boot type. Cable management fingers help to support and organize the fiber as it exits the chassis. The design promotes proper bend radius for all fiber up to 3.0 mm. The C2X presents a truly usable high-density fiber connectivity solution with the benefits of a bulkhead-based design.

C21 Configuration

The new C21 features a sliding tray that eases finger access to the patch area in the front. The tray also can be removed to improve the splicing experience. This 1RU panel is available in multiple configurations such as: Patch only, patch/splice and pre-terminated with wide range of cable types (page 9)*.

Cable management features including multiple tie-off points, ring holders for cables and front provisions to secure the fiber jumpers with hook-and-loop fasteners.

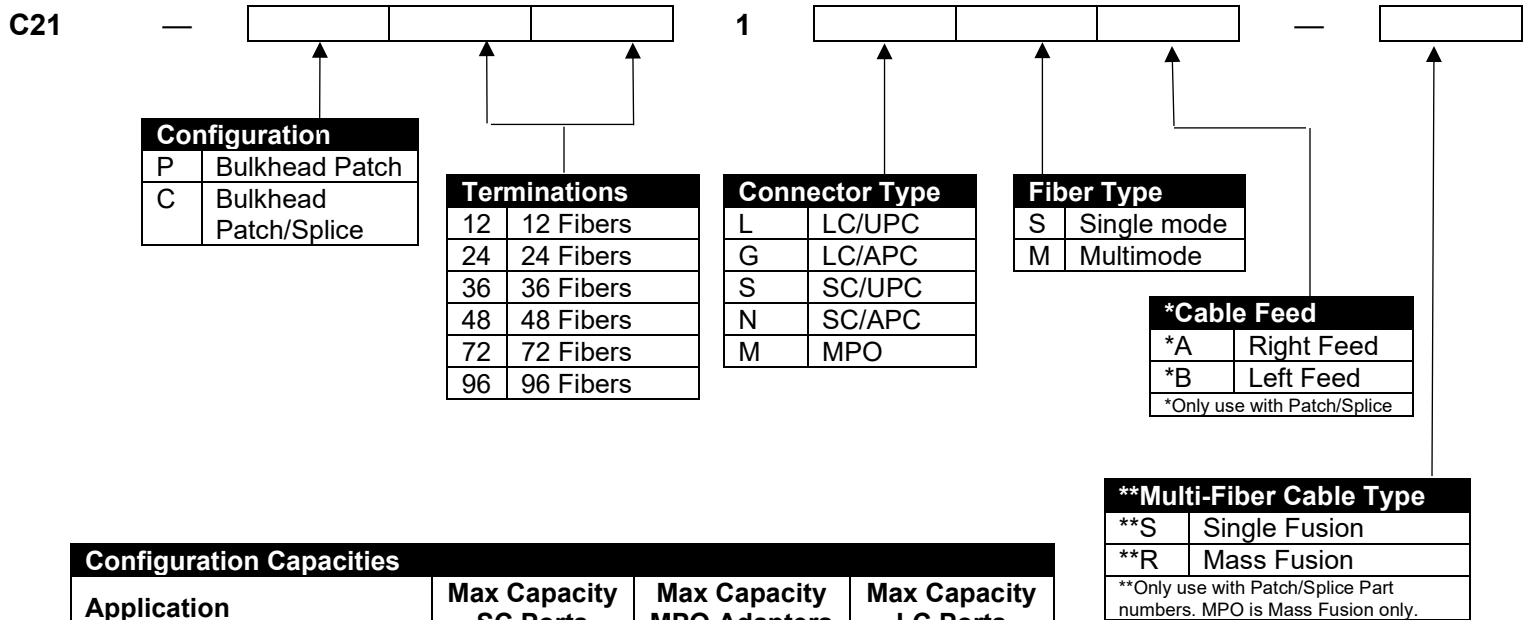
Removable protective covers improve access to the splicing and patch areas.



Fig. 1: C21

**Please contact Application Engineering for more information, part numbers and configurations*

C21 Configuration Matrix



Configuration Capacities			
Application	Max Capacity SC Ports	Max Capacity MPO Adapters	Max Capacity LC Ports
Bulkhead Patch	48	8 (96F)	96
Single Fusion Patch/Splice	48	N/A	48
Mass Fusion Patch/Splice	48	8 (96F)	96

Advanced Optical Modules - AOMs				
RUs	Number of Adapters	Number of Single Cassettes (HX)	Max SC or MPO Adapters	Max LC Ports
1	3	6	36	72
Note: Advanced Optical Modules (AOMs) require adapter 1027808 to be installed. One adapter holds two AOMs, and there is space for three adapters in the C21 chassis.				

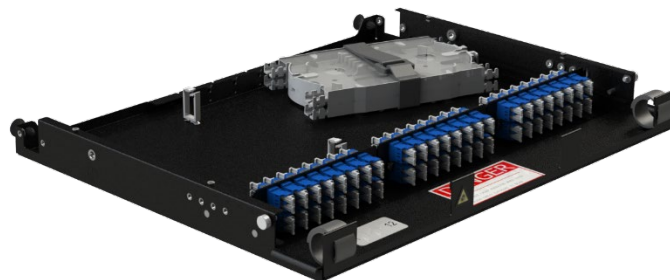


Fig. 2: C21 96 Fiber LC

C2X 2RU, 3RU & 4RU Bulkhead Configuration

C2X 2RU, 3RU & 4RU platform can be configured as a bulkhead solution or modular solution. Bulkhead C2X supports Patch only, Patch/Splice and pre-term configurations

For a modular solution, you can also deploy any mix of Advanced Optical Modules - AOMs into these C2X chassis.

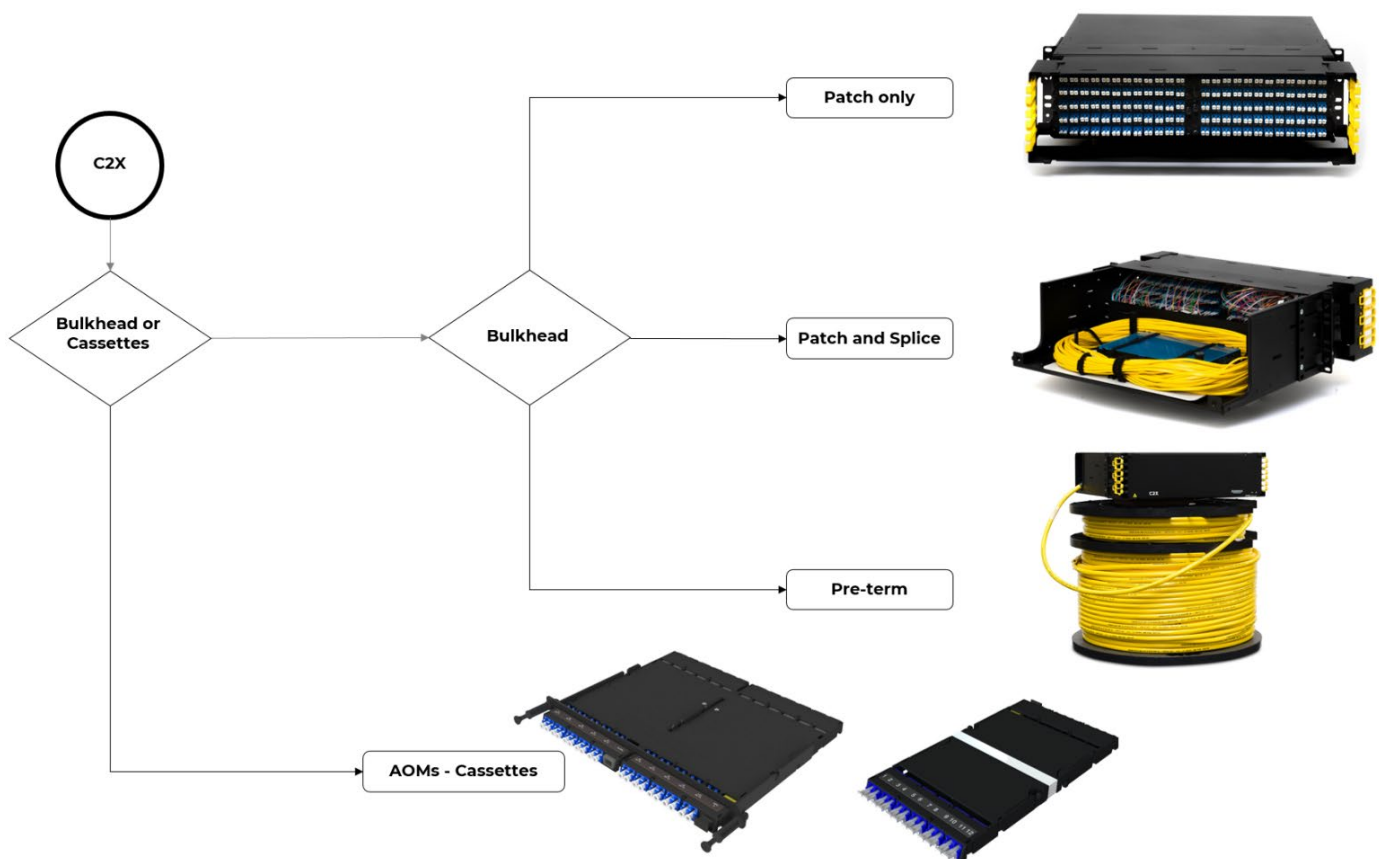
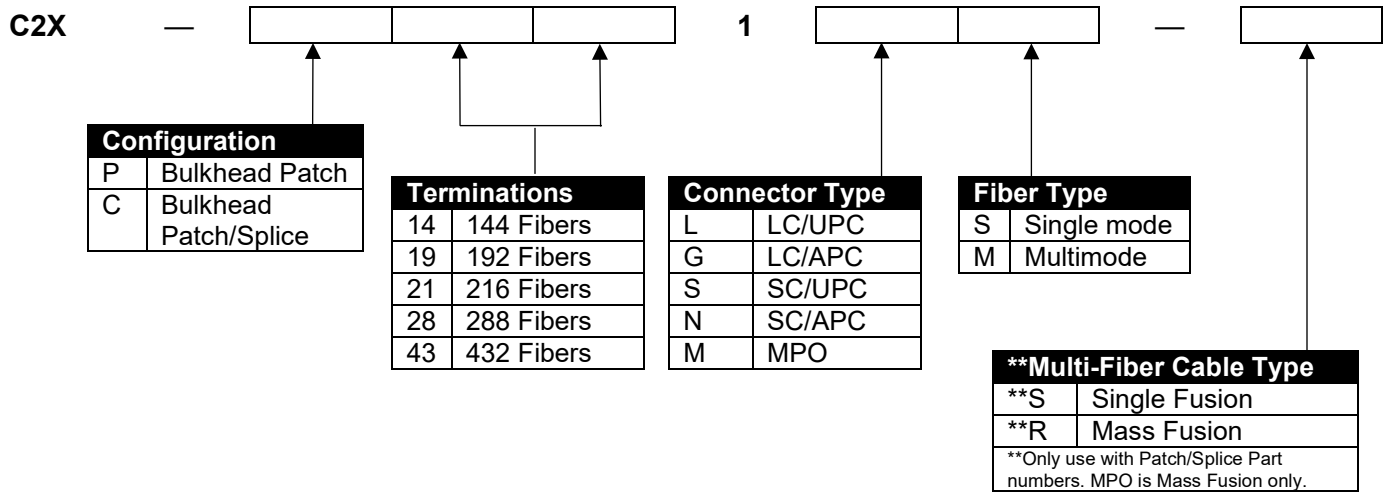


Fig. 3: C2X 2RU, 3RU & 4RU Options

C2X 2RU, 3RU & 4RU Bulkhead Configuration Matrix



Bulkhead Patch Configurations		
RUs	Max SC or MPO Adapters	Max LC Ports
2	96	192
3	144	288
4	216	432



Fig. 4: C2X 3RU rear view

C2X Patch Part Number Examples

Part Number	Description
C21-P241NSB	C2X PATCH CHASSIS 1RU: 24F SC/APC SINGLEMODE
C21-P481GSA	C2X PATCH CHASSIS 1RU: 48F LC/APC SINGLEMODE
C21-P481SSA	C2X PATCH CHASSIS 1RU: 48F SC/UPC SINGLEMODE
C21-P961LMB	C2X PATCH CHASSIS 1RU: 96F LC/UPC MULTIMODE
C21-P961LS	C2X PATCH CHASSIS 1RU: 96F LC/UPC SINGLEMODE
C2X-P141LS	C2X PATCH CHASSIS 2RU: 144F LC/UPC SINGLEMODE
C2X-P191LS	C2X PATCH CHASSIS 2RU: 192F LC/UPC SINGLEMODE
C2X-P281LS	C2X PATCH CHASSIS 3RU: 288F LC/UPC SINGLEMODE
C2X-P431LS	C2X PATCH CHASSIS 4RU: 432F LC/UPC SINGLEMODE
C2X-P141GS	C2X PATCH CHASSIS 2RU: 144F LC/APC SINGLEMODE
C2X-P191GS	C2X PATCH CHASSIS 2RU: 192F LC/APC SINGLEMODE
C2X-P281GS	C2X PATCH CHASSIS 3RU: 288F LC/APC SINGLEMODE
C2X-P431GS	C2X PATCH CHASSIS 4RU: 432F LC/APC SINGLEMODE
C2X-P721SS	C2X PATCH CHASSIS 2RU: 72F SC/UPC SINGLEMODE
C2X-P961SS	C2X PATCH CHASSIS 2RU: 96F SC/UPC SINGLEMODE
C2X-P141SS	C2X PATCH CHASSIS 3RU: 144F SC/UPC SINGLEMODE
C2X-P211SS	C2X PATCH CHASSIS 4RU: 216F SC/UPC SINGLEMODE
C2X-P961NS	C2X PATCH CHASSIS 2RU: 96F SC/APC SINGLEMODE
C2X-P141NS	C2X PATCH CHASSIS 3RU: 144F SC/APC SINGLEMODE
C2X-P211NS	C2X PATCH CHASSIS 4RU: 216F SC/APC SINGLEMODE
C2X-P141LM	C2X PATCH CHASSIS 2RU: 144F LC/UPC MULTIMODE AQUA
C2X-P191LM	C2X PATCH CHASSIS 2RU: 192F LC/UPC MULTIMODE AQUA
C2X-P281LM	C2X PATCH CHASSIS 3RU: 288F LC/UPC MULTIMODE AQUA
C2X-P431LM	C2X PATCH CHASSIS 4RU: 432F LC/UPC MULTIMODE AQUA

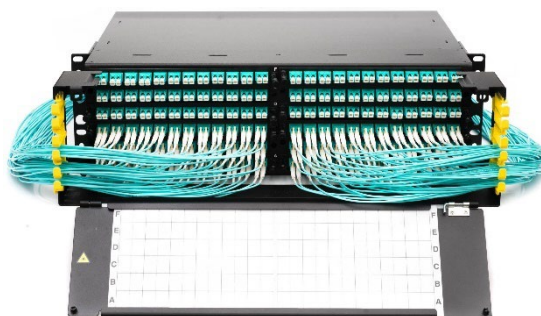


Fig. 5: C2X 3RU Patch only

C2X Patch & Splice Part Number Examples

Part Number	Description
C21-C241NSB-R	C2X PATCH SPLICE CHASSIS 1RU: 24F SC/APC SINGLEMODE RIBBON 6FT BREAKOUT LEFT
C21-C481GSA-S	C2X PATCH SPLICE CHASSIS 1RU: 48F LC/APC SINGLEMODE STRANDED 1.5M BREAKOUT
C21-C481SSA-S	C2X PATCH SPLICE CHASSIS 1RU: 48F SC/UPC SINGLEMODE STRANDED 1.5M BREAKOUT
C21-C961LMB-R	C2X PATCH SPLICE CHASSIS 1RU: 96F LC/UPC MULTIMODE RIBBON 6FT BREAKOUT
C21-C961LSB-R	C2X PATCH SPLICE CHASSIS 1RU: 96F LC/UPC SINGLEMODE RIBBON 6FT BREAKOUT
C21-C241NSB-R	C2X PATCH SPLICE CHASSIS 1RU: 24F SC/APC SINGLEMODE RIBBON 6FT BREAKOUT
C2X-C141LS-R	C2X PATCH SPLICE CHASSIS 2RU: 144F LC/UPC SINGLEMODE RIBBON 3M BREAKOUT
C2X-C191LS-R	C2X PATCH SPLICE CHASSIS 2RU: 192F LC/UPC SINGLEMODE RIBBON 3M BREAKOUT
C2X-C281LS-R	C2X PATCH SPLICE CHASSIS 3RU: 288F LC/UPC SINGLEMODE RIBBON 3M BREAKOUT
C2X-C431LS-R	C2X PATCH SPLICE CHASSIS 4RU: 432F LC/UPC SINGLEMODE RIBBON 3M BREAKOUT
C2X-C721SS-R	C2X PATCH SPLICE CHASSIS 2RU: 72F SC/UPC SINGLEMODE RIBBON 3M BREAKOUT
C2X-C961SS-R	C2X PATCH SPLICE CHASSIS 2RU: 96F SC/UPC SINGLEMODE RIBBON 3M BREAKOUT
C2X-C141SS-R	C2X PATCH SPLICE CHASSIS 3RU: 144F SC/UPC SINGLEMODE RIBBON 3M BREAKOUT
C2X-C211SS-R	C2X PATCH SPLICE CHASSIS 4RU: 216F SC/UPC SINGLEMODE RIBBON 3M BREAKOUT
C2X-C141GS-S	C2X PATCH SPLICE CHASSIS 2RU: 144F LC/APC SINGLEMODE STRANDED 3M BREAKOUT
C2X-C191GS-S	C2X PATCH SPLICE CHASSIS 2RU: 192F LC/APC SINGLEMODE STRANDED 3M BREAKOUT
C2X-C281GS-S	C2X PATCH SPLICE CHASSIS 3RU: 288F LC/APC SINGLEMODE STRANDED 3M BREAKOUT
C2X-C431GS-S	C2X PATCH SPLICE CHASSIS 4RU: 432F LC/APC SINGLEMODE STRANDED 3M BREAKOUT
C2X-C721NS-S	C2X PATCH SPLICE CHASSIS 2RU: 72F SC/APC SINGLEMODE STRANDED 3M BREAKOUT
C2X-C961NS-S	C2X PATCH SPLICE CHASSIS 2RU: 96F SC/APC SINGLEMODE STRANDED 3M BREAKOUT
C2X-C141NS-S	C2X PATCH SPLICE CHASSIS 3RU: 144F SC/APC SINGLEMODE STRANDED 3M BREAKOUT
C2X-C211NS-S	C2X PATCH SPLICE CHASSIS 4RU: 216F SC/APC SINGLEMODE STRANDED 3M BREAKOUT



Fig. 6: C2X 3RU

C2X Pre-Terminated Part Configurator

C2X — F

Fiber Count	
12	12 Fibers
24	24 Fibers
36	36 Fibers
48	48 Fibers
72	72 Fibers
96	96 Fibers
14	144 Fibers
28	*288 Fibers

Connector Type	
S	SC/UPC
N	SC/APC
L	LC/UPC
G	LC/APC
M	*MPO/MTP

*All MPOs are Male

Cable Length	
010 - 990	
Note: Round up to the nearest meter or 5ft. Max. length of 990ft or 300 meters	

Length Unit	
M	Meter
F	Feet

*When mounting options is "X", a 2x144F option is configured

Multi-Fiber Cable Type	
1	*Stranded SM, Riser Rated, Pigtail
2	*Stranded SM, Plenum Rated, Pigtail
3	Ribbon Fiber SM, Riser Rated, Pigtail
4	Ribbon Fiber MM, Riser Rated, Pigtail
5	*Stranded MM, Riser Rated, Pigtail, OM4
6	*Stranded MM, Plenum Rated, Pigtail, OM4
8	Loose Tube SM, OSP Rated, Pigtail
9	Ribbon Fiber SM, OSP Rated, Pigtail
C	Loose Tube SM, Indoor/Outdoor Riser Rated, Pigtail

*Stranded is type G.657 - Micro Distribution
Note: Other fiber cable types available, please contact Inside Sales

Multi-Fiber Cable Mounting & Feed Direction (When facing front of chassis)	
F	Center-right mount, internal clamping, horizontal exit
G	Center-left mount, internal clamping, horizontal exit
X	Dual Left/Right mount, Internal clamping, 45° exit

Note: Internal clamp can be moved to either the right or left side during installation



Fig. 7: C2X Pre-terminated Chassis

C2X Pre-Terminated Part Number Examples

Part Number	Description
C2X-F141L3F-020M	C2X PRE-TERM CHASSIS 2RU: 144F STRANDED MICRO DISTRIBUTION SM LC/UPC 20M STUB, CENTER-RIGHT MOUNT, INTERNAL CLAMPING
C2X-F141L3F-040M	C2X PRE-TERM CHASSIS 2RU: 144F STRANDED MICRO DISTRIBUTION SM LC/UPC 40M STUB, CENTER-RIGHT MOUNT, INTERNAL CLAMPING
C2X-F141L3F-060M	C2X PRE-TERM CHASSIS 2RU: 144F STRANDED MICRO DISTRIBUTION SM LC/UPC 60M STUB, CENTER-RIGHT MOUNT, INTERNAL CLAMPING
C2X-F281L3G-020M	C2X PRE-TERM CHASSIS 3RU: 288F STRANDED MICRO DISTRIBUTION SM LC/UPC 20M STUB, CENTER-LEFT MOUNT, INTERNAL CLAMPING
C2X-F281L3G-040M	C2X PRE-TERM CHASSIS 3RU: 288F STRANDED MICRO DISTRIBUTION SM LC/UPC 40M STUB, CENTER-LEFT MOUNT, INTERNAL CLAMPING
C2X-F281L3G-060M	C2X PRE-TERM CHASSIS 3RU: 288F STRANDED MICRO DISTRIBUTION SM LC/UPC 60M STUB, CENTER-LEFT MOUNT, INTERNAL CLAMPING
C2X-F961S2F-080M	C2X PRE-TERM CHASSIS 2RU:96F STRANDED PLENUM SM SC/UPC 80M STUB, CENTER-RIGHT MOUNT, INTERNAL CLAMPING
C2X-F281L3G-100F	C2X PRE-TERM CHASSIS 3RU:288F RIBBON SM LC/UPC 100F STUB, CENTER-LEFT MOUNT, INTERNAL CLAMPING
C2X-F281M3G-100F	C2X PRE-TERM CHASSIS 2RU:288F RIBBON SM MPO 100F STUB, CENTER-LEFT MOUNT, INTERNAL CLAMPING



Fig. 8: C2X Pre-term rear view

Chassis Accessories

Part Numbers

Part Number	Description
C2X-TRAY	C2X TRAY EMPTY: COMPATIBLE WITH SINGLE OR DUAL C2 MODULE
C2X-BLANK	C2X BLANKING PLATE, 1 TRAY
C2X-SPLS36	C2X SPLICE CASSETTE, 36F SINGLE FUSION WITH SLEEVES
C2X-SPT-2RU	SPLICE TRAY KIT, 2RU
C2X-SPT-3RU	SPLICE TRAY KIT, 3RU
C2X-SPT-4RU	SPLICE TRAY KIT, 4RU
C2X-CLAMP	CLAMP ASSY:C2X,HARDWARE,BRKT, .4" - 1.25" DIA, STRAIGHT
C2X-CLAMP-A	CLAMP ASSY:C2X,HARDWARE,BRKT, .4" - 1.25" DIA, ANGLED
C2-CLMP-LF	EXTERNAL CLAMP, LEFT, FIXED DIAMETER
C2-CLMP-RF	EXTERNAL CLAMP, RIGHT, FIXED DIAMETER
C2-CLMP-LV	EXTERNAL CLAMP, LEFT, VARIABLE DIAMETER
C2-CLMP-RV	EXTERNAL CLAMP, RIGHT, VARIABLE DIAMETER
KIT-CLMP-C2	C2 SADDLE CLAMP KIT
C2-CLMP-ANG	BRACKET KIT: CABLE TIE OFF, 3 POSITION, ANGLED
C2-CLMP-SMB	BRACKET KIT: STRENGTH MEMBER, MAX CABLE DIAMETER 0.78

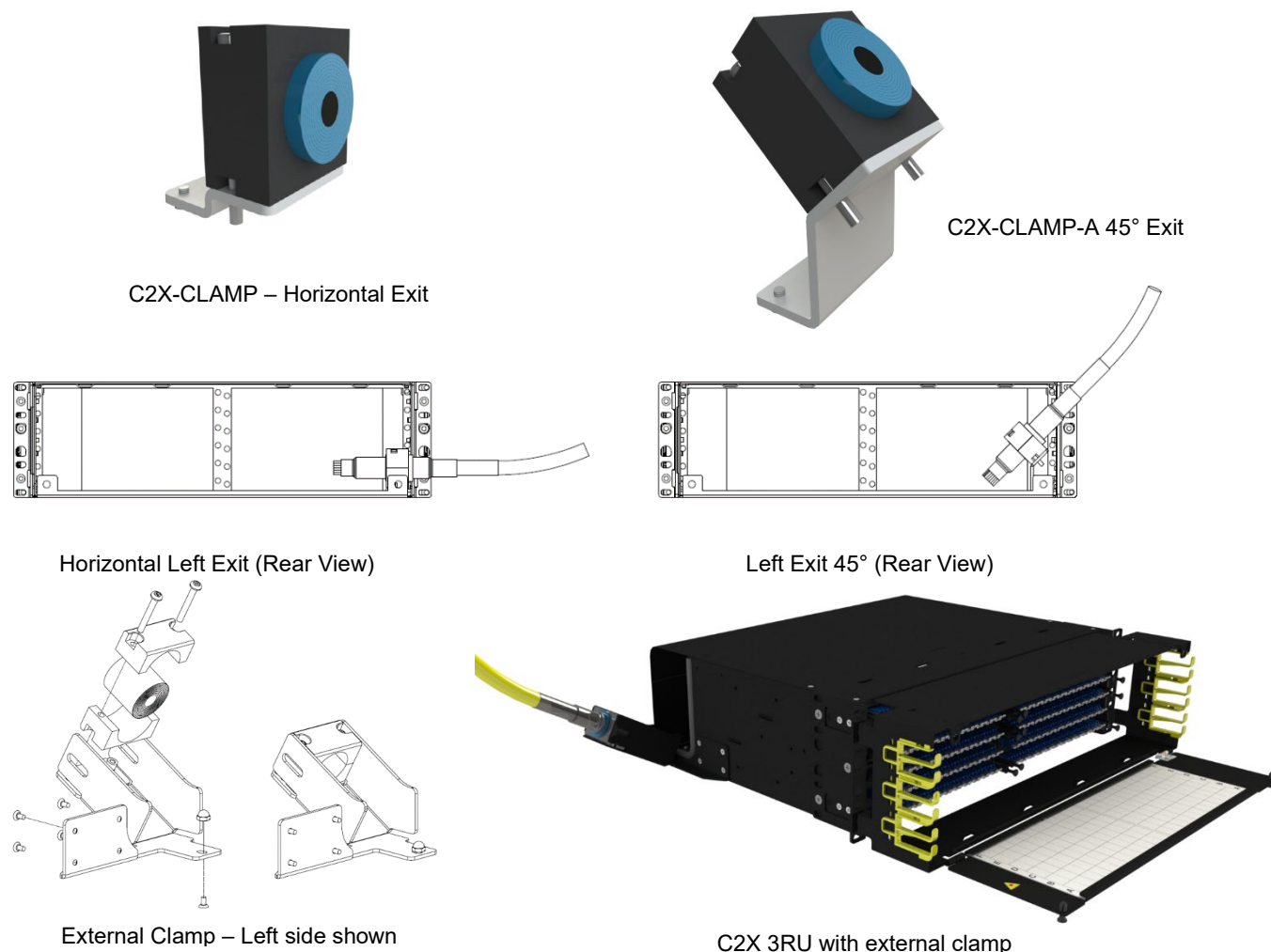
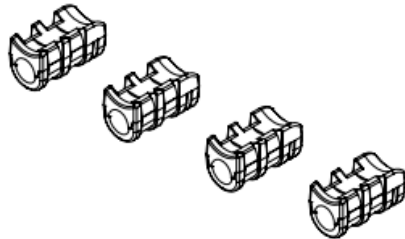


Fig. 9: C2X 3RU and cable clamp options

Saddle Clamp

C2 Saddle cable clamp mounts directly to C2X chassis in a very innovative way. Saddle clamp assembly can support a variety of incoming fiber jumpers and trunk cable bundles (19mm Max.), it can be mounted on any surface of the back of the C2X chassis (2RU, 3RU or 4RU) and multiple saddle clamps can be used. Installation kit includes 4 saddle clamps.



C2 Saddle Cable Clamp Kit
KIT-CLMP-C2

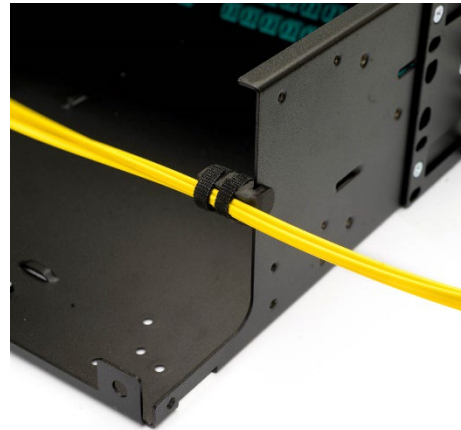
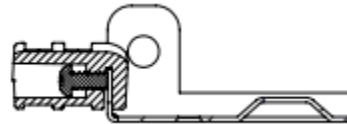
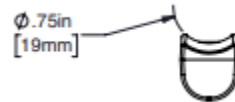


Fig. 10: Saddle Clamp – Inward and outward installation

C2X	Saddle Clamps Qty
2RU	6 per side = 12
3RU	9 per side = 18
4RU	12 per side = 24

Cable Clamp application table

- ✓ Application and Clamp compatible
- ✓✓ Recommended Clamp for specific application

Panel	Application	Internal Clamp		External Clamp	Saddle Clamp
		Straight	Angled		
C2X-02U	Patch only	✓		✓	✓✓
	Patch and Splice			✓✓	✓
	Preterm	✓✓		✓	
	AOMs	✓		✓	✓✓
C2X-03U	Patch only	✓	✓	✓	✓✓
	Patch and Splice			✓✓	✓
	Preterm	✓✓	✓	✓	
	AOMs	✓	✓	✓	✓✓
C2X-04U	Patch only	✓	✓	✓	✓
	Patch and Splice			✓✓	✓
	AOMs	✓	✓	✓	✓✓

Advanced Optical Modules - AOMs

- Patch only
- Patch and splice
- Pre-terminated
- MPO Base-8, 12 & 24 fiber systems
- TAPs
- Splitters
- CWDM & DWDM



Note: For AOM part numbers, see [AOM ordering guide](#)

Fig. 11: LC to MPO AOM in C2X tray

Chassis

Empty Chassis Part Numbers

Part Number	Description
C2X-02U	C2X CHASSIS, 2RU, FOR UP TO 8 TRAYS/16 MODULES (HX)
C2X-03U	C2X CHASSIS, 3RU, FOR UP TO 12 TRAYS/24 MODULES (HX)
C2X-04U	C2X CHASSIS, 4RU, FOR UP TO 16 TRAYS/32 MODULES (HX)

Chassis Part Numbers including trays for AOMs

Part Number	Description
C2X-02U-T	C2X CHASSIS, 2RU, INCLUDES 8 TRAYS FOR UP TO 16 MODULES (HX)
C2X-03U-T	C2X CHASSIS, 3RU, INCLUDES 12 TRAYS FOR UP TO 24 MODULES (HX)
C2X-04U-T	C2X CHASSIS, 4RU, INCLUDES 16 TRAYS FOR UP TO 32 MODULES (HX)

Advanced Optical Modules - AOMs				
RUs	Number of trays	Number of Single Cassette (HX)	Max SC or MPO Adapters	Max LC Ports
2	8	16	96	192
3	12	24	144	288
4	16	32	192	384



Fig. 12: C2X 3RU Chassis

Note: Advance Optical Modules – AOMs require C2X-TRAY to be installed. Each tray houses 2 single AOMs or 1 dual AOM