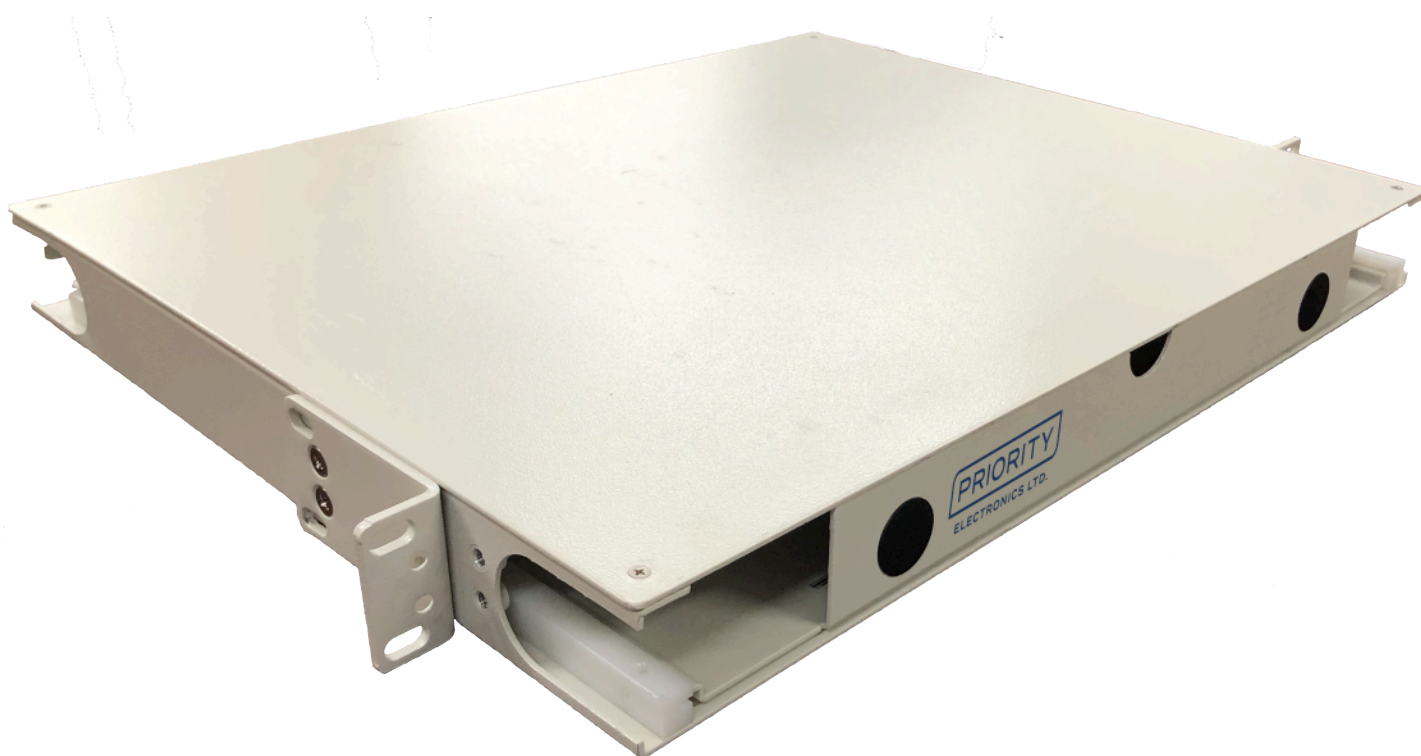


1RU 19"/23" NLP Panel

Storage/Patch/Splice/Quick Deploy
Ultra High Density

User Manual



Make the **PRIORITY** Connection

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Revision History

Issue	Date	Description
1	04/23/2018	Original Release
2	05/26/2022	Update logo and pictures

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About This Manual

This publication describes Priority Electronics Ltd's 1RU NLP Rack Mount Panel. Also included are procedures for assembly of various configurations.

ADMONISHMENTS

Important safety admonishments are used throughout this manual to warn of possible hazards to persons or equipment. An admonishment identifies a potential hazard and then explains what may happen if the hazard is not avoided. These warnings are flagged by use of the alert triangle (See Below) and are listed in order of severity of injury or damage and likelihood of occurrence.



Danger: Danger is used to indicate the presence of a hazard that will or can cause severe personal injury, death or substantial property damage if the hazard is not avoided.



Warning: Warning is used to indicate the presence of a hazard that can cause severe personal injury, death or substantial property damage if the hazard is not avoided.

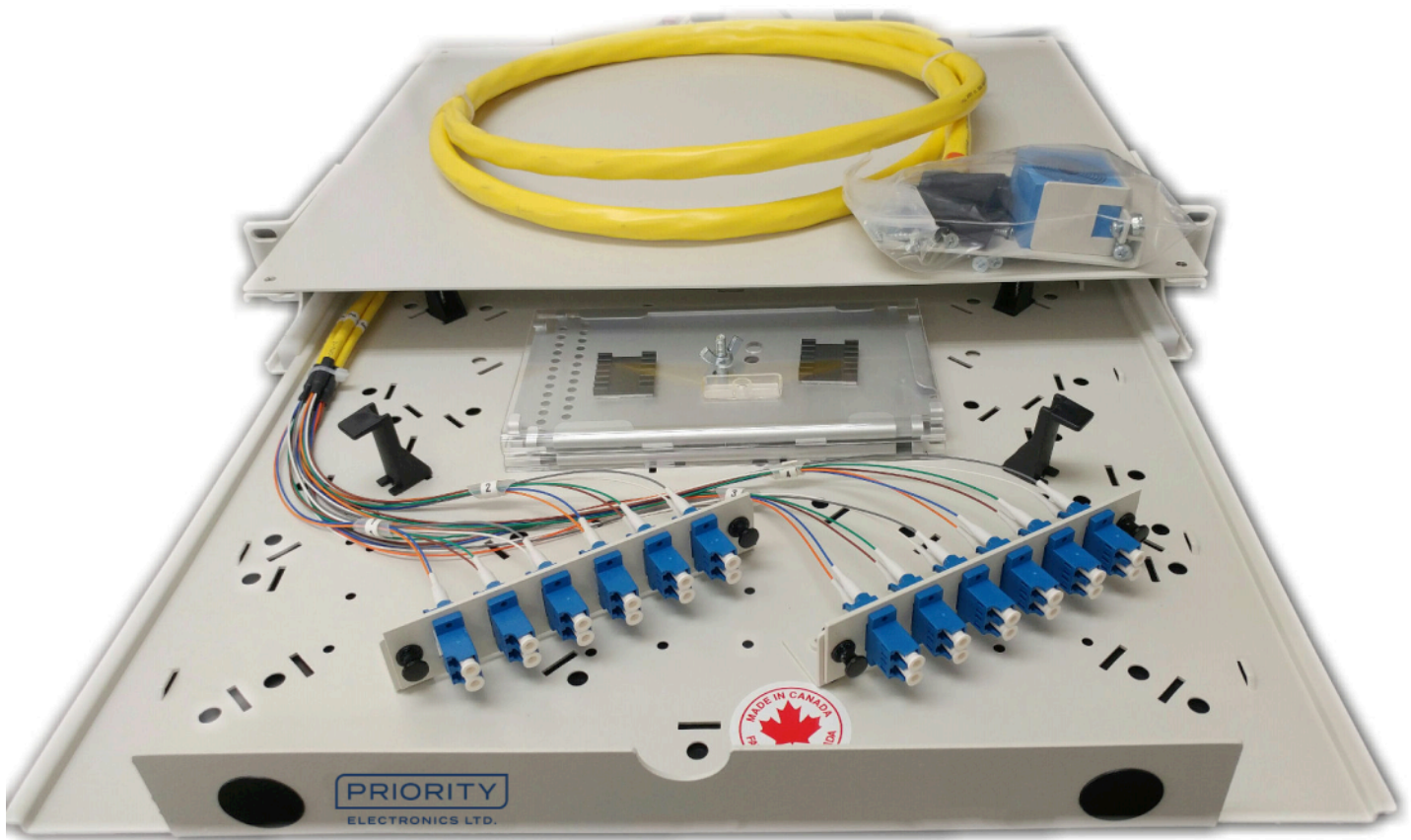


Caution: Caution is used to indicate the presence of a hazard that will or can cause minor personal injury or property damage if the hazard is not avoided.

GENERAL SAFETY PRECAUTIONS



Danger: Do not look into the ends of any optical fiber. Exposure to laser radiation may result. Do not assume the laser power is turned off or that the fiber is disconnected at the other end. Priority Electronics Ltd recommends the use of video inspection microscopes for inspecting connector end faces in the field.



1.0 Description

The metal chassis of the 1RU rack mount NLP Panel is 1.75" high x 17" wide x 13.75" deep. It is equipped with reversible EIA mounting brackets and a slide out tray with optional locking. The reversible brackets allow for mounting the chassis to 19" or 23" EIA racks. The slide out feature allows access to the entire tray. The tray can accommodate the installation of adapter plates, splice trays, routing arcs and cable reels with various mounting positions for each. This versatility allows for configuration options including storage, splice, patch & splice and patch.

2.0 Installation Instructions

The reversible mounting brackets provided with the chassis allow the chassis to be mounted to 19" and 21" equipment racks.

- 2.1 For mounting to 19" racks, attach the broad side of the brackets to the chassis using the 4-10/32 x 0.375 Phillips screws provided.



Figure 1

- 2.2 For mounting to 23" racks, attach the narrow side of the brackets to the chassis using the 4-10/32 x 0.375 Phillips screws provided



Figure 2

- 2.3 There are two positions on the chassis to attach the mounting brackets. The chassis can sit either 2" or 4.75" forward of the face of both 19" and 23" racks.

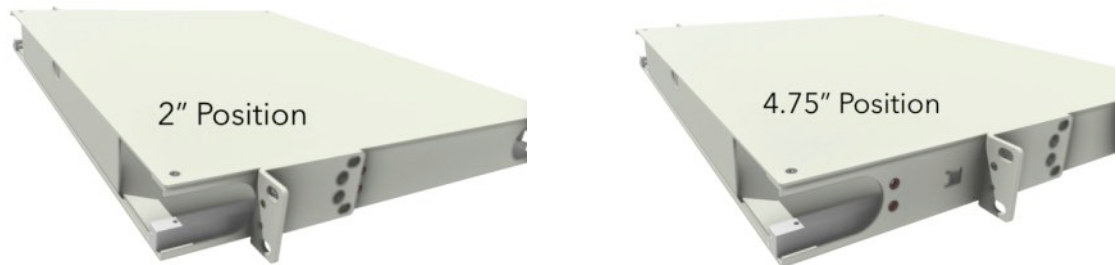


Figure 3

The brackets can be positioned in non-standard configurations for 19" racks. The chassis can be flush with the face of the rack or 7.5" forward (approx. mid- chassis). NOTE: Flush mounting dictates that patch cords must exit through the face of the pull out tray. A 16"-18" service loop must be maintained in the patch cords to allow the tray to be opened.



Figure 4

2.0 Installation Instructions - cont'd

- 2.4 The chassis is mounted to the rack using the 4 - 10/32 stainless screws provided.



Figure 5

- 2.5 In general, an incoming cable is to enter the panel through one of the rear corner entrance ports. Cable slack is to be coiled around routing arcs in a counter clockwise fashion. **DO NOT COIL THE FIRST 16"-18" OF CABLE AROUND THE ARCS. THIS WILL SERVE AS A SERVICE LOOP TO ALLOW THE CABLE TRAY TO BE OPENED FOR SERVICE.**

Figure 6 is an example of a tray equipped with routing arcs, a splice tray and 2-12 pack SC adapter plates.

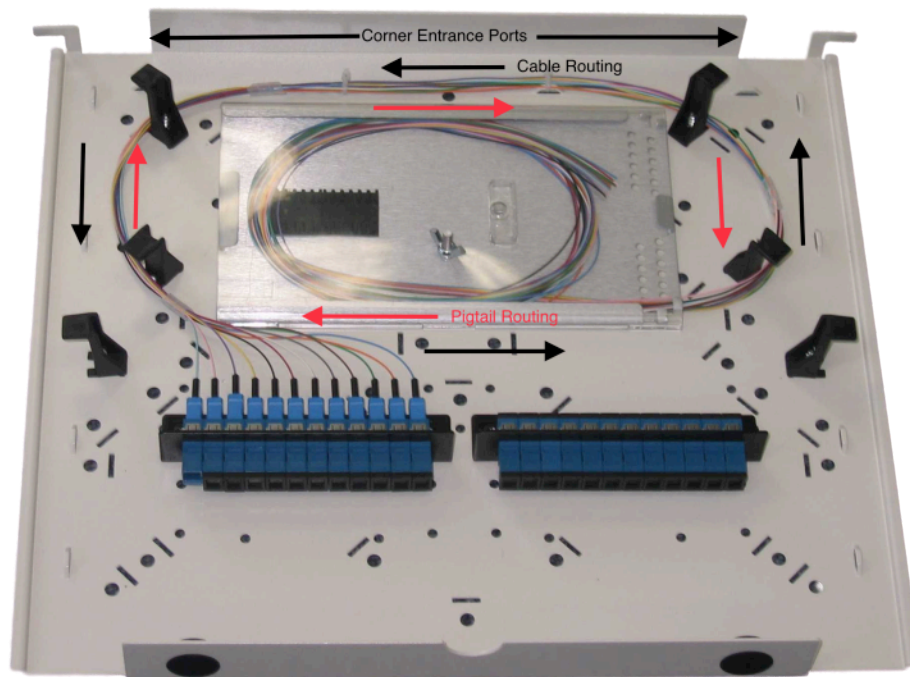


Figure 6

2.0 Installation Instructions - cont'd

- 2.6 A cable clamp is available for securing the incoming cable to the rear of the rack. The clamp mounting bracket is to be attached to the rear flange of the rack using your standard rack mounting hardware, about 3" above the 1RU Panel.

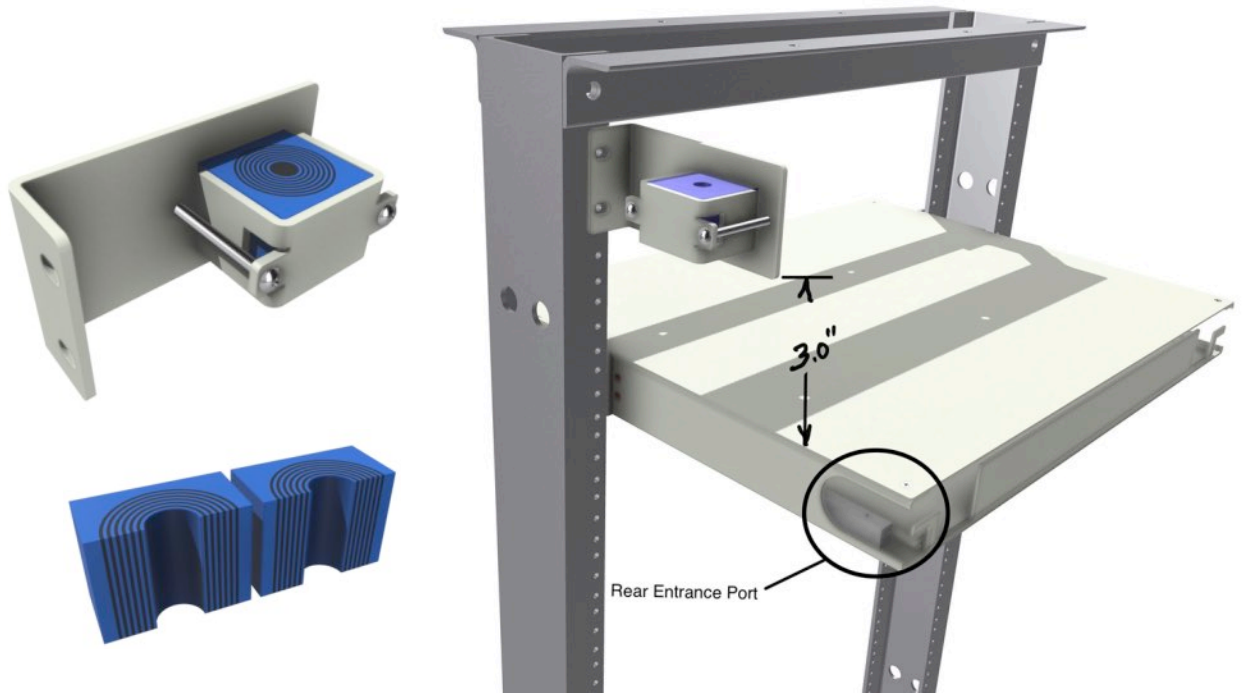


Figure 7

The bushing kit consists of a cylinder of leaves. Measure the diameter of the cable and peel off the leaves until the diameter of the cable is achieved. The bushing kit is to be wrapped around the cable and positioned in the cable clamp. Secure the clamp to the mounting bracket with the screws provided.

The cable is to enter the 1RU Panel through the rear entrance port.

3.0 Tray Latch (Option)

An optional tray latch/lock is available to secure the tray in place in the chassis when not being accessed. There are two positions on the face plate of the tray for a latch to be inserted. When the tray latch is engaged the tab slides through slots in the tray and chassis, locking the tray in position.



Figure 8

4.0 Tray Stop Tool

- 4.1 The tray in the 1RU panel has an integrated stopper to prevent tray removal from the front of the chassis. The tray can be pulled out the back of the chassis to allow for removal for splicing. In cases where tray removal is not desirable, a tool has been developed to prevent the tray from being pulled completely out of the chassis.
- 4.2 The Tray Stop tool is "L" shaped consisting of a short 1" bottom leg and a 7.5" horizontal leg with a "U" shaped bend at the end.

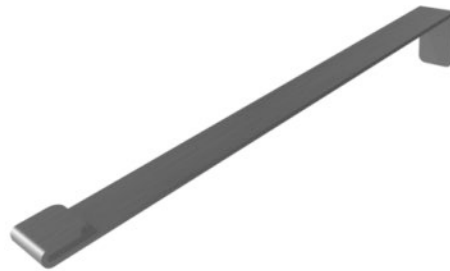


Figure 9

- 4.3 INSTRUCTIONS: Pull the tray out the front of the chassis until the tray front clears the chassis. Insert the 1" long section of the tool inside the front of the tray with the 7.5" long section extending outwards and the "U" bend facing up. Push the tray into the chassis and guide the "U" bend to engage with the top panel of the chassis. To remove the tool, push the tray into the chassis from the rear until the front of the tray clears the chassis. Remove the tool. Slide the tray until the front is flush with the chassis. If necessary, a second tool can be utilized.

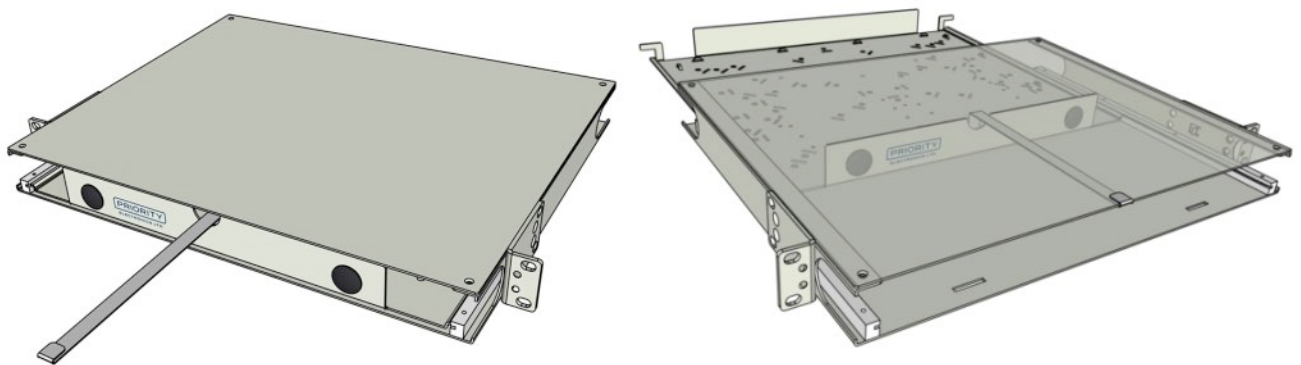


Figure 10

5.0 Configuration Options

Numerous options are available including storage, splice, patch & splice, patch, Quick Deploy and Ultra High Density. In all cases, a 16"-18" service loop must be incorporated into incoming and outgoing cables and patch cords in order to allow the tray to be opened for service.

- 5.1 Slack Storage Option - tray populated with routing arcs to support coiling of cable or patch cord slack. The tray contains numerous mounting locations for routing arcs allowing for various configurations.

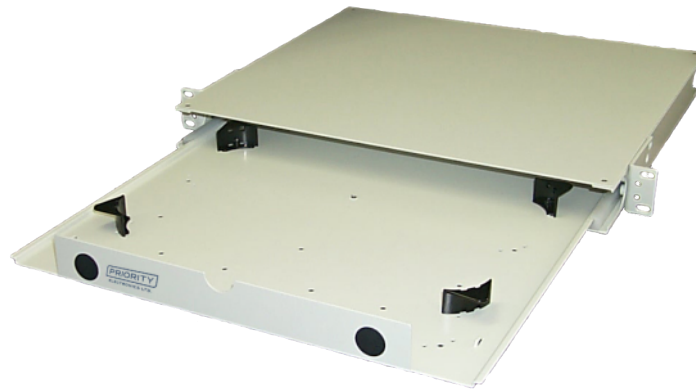


Figure 11

- 5.2 Splice Option - tray populated with splice trays and routing arcs. Supports up to two 12 fiber trays. Two sizes of splice tray are available - 4" x 7" and 5" x 8.75"

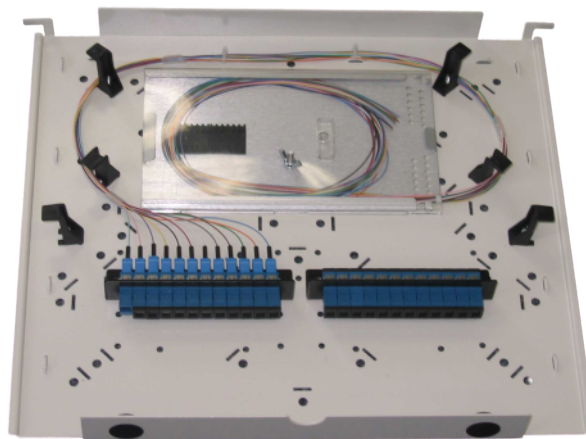


Figure 12

5.0 Configuration Options - cont'd

- 5.3 Patch & Splice Option – tray populated with splice trays, routing arcs and adapter plates. A number of types of adapter plates and mounting positions are available. The Panel can be ordered pre-cabled with pigtails.

12 Fiber Pigtail (optional)

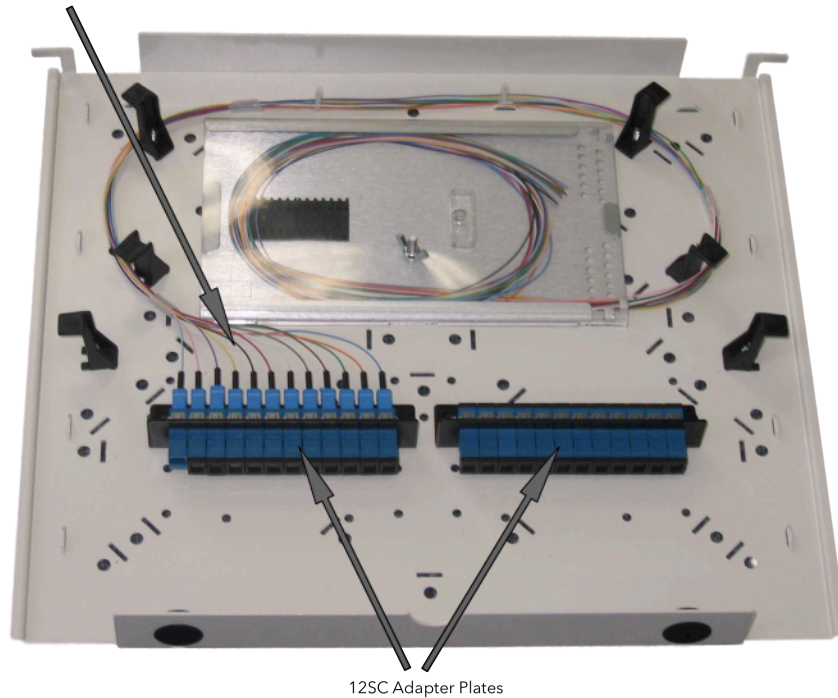


Figure 13

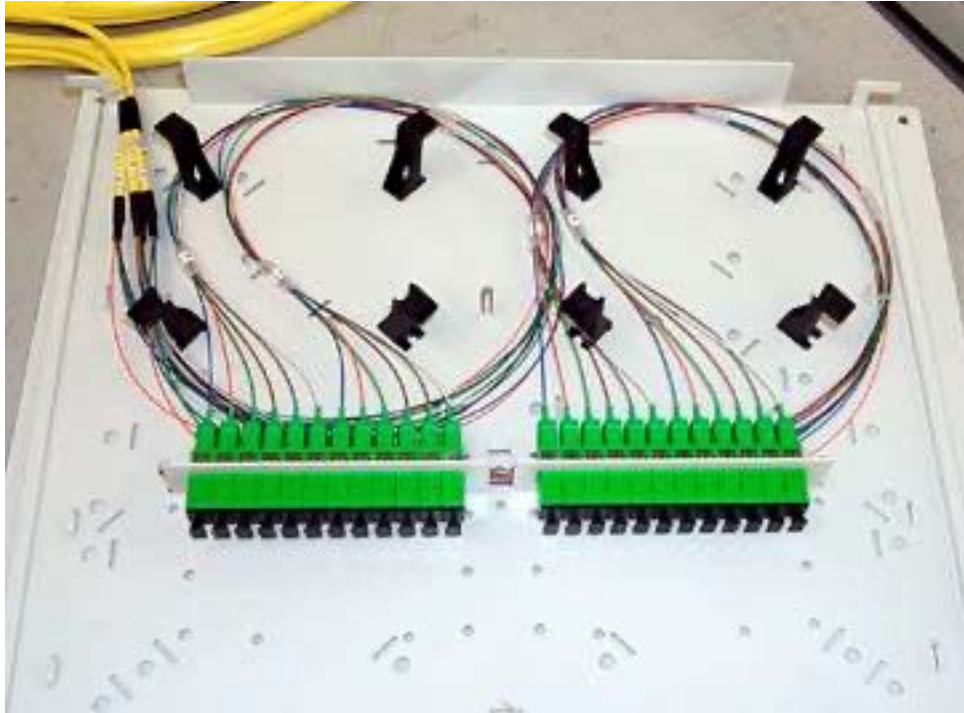


Showing angled adapter plates

Figure 14

5.0 Configuration Options - cont'd

- 5.4 Patch Option – tray populated with adapter plates (numerous options available). Routing arcs are optional and the panel can be ordered pre-cabled. **A 16"-18" service loop in the cable is required outside the panel to allow the tray to be opened.**



Shown with 24 fiber cable

Figure 15

5.0 Configuration Options - cont'd

- 5.5 Quick Deploy Option - tray populated with one or two reels of cable, routing arcs and adapter plates.

Quick Deploy Reels support up to 150ft (45m) of 3mm 12f cable. Alternatively, reels with 75ft (22.5m) of 4mm 24f cable are available.

SC or LC connectors are terminated on an adapter plate secured in the inner hub of the reel. An MPO connector is on the cable end that can be reeled out to equipment or another panel. Once the MPO end is routed to the required destination and a 16"-18" service loop incorporated outside the panel, the remaining cable on the reel can be secured with the reel locking nut. The adapter plate in the inner hub can then be removed and affixed to an adapter plate mounting bracket on the tray.

Various configurations are available.

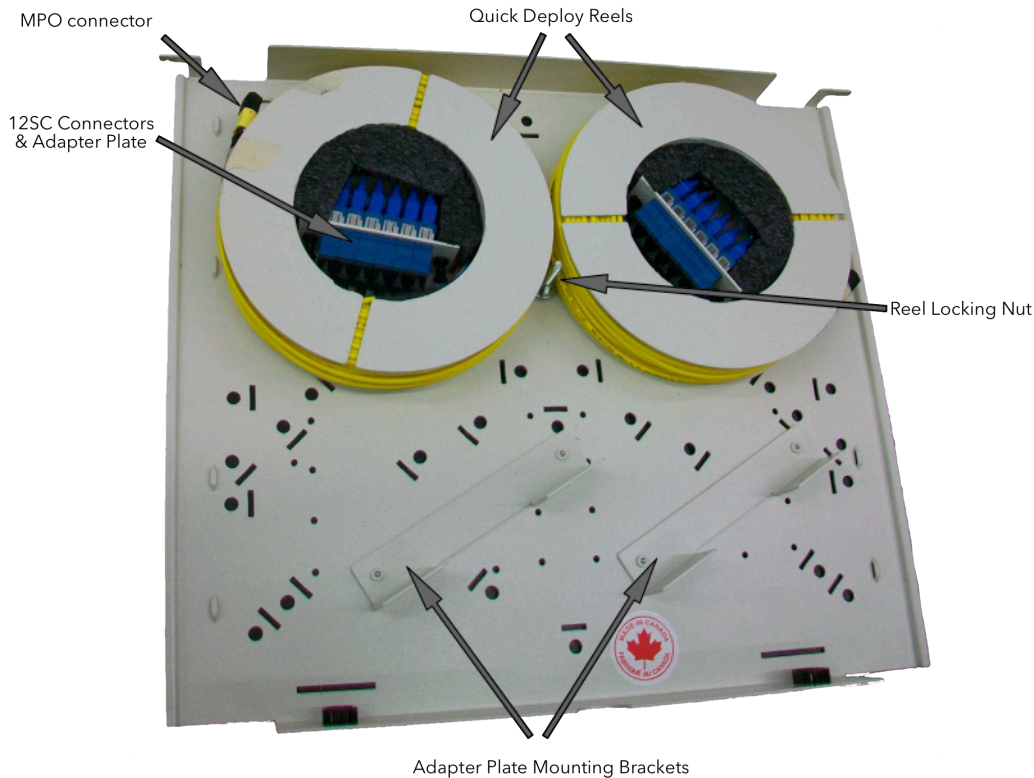


Figure 16

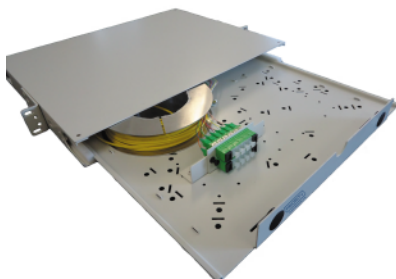


Figure 17

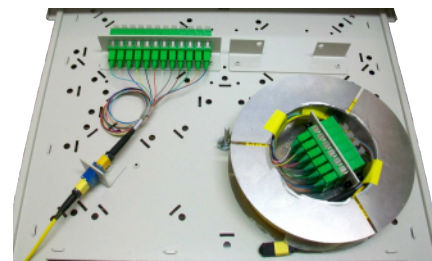


Figure 18

5.0 Configuration Options - cont'd

- 5.6 Ultra High Density Option - tray populated with one 96LC or one 96LC - 8x12MPO adapter plate (96LC - 8x 12MPO option shown in Figure 19) to 96 fibre terminations in a 1RU footprint.

Available with routing arcs and pre-cabled. The adapter plates can support up to 48SC adapters to provide a dense SC 1RU option.

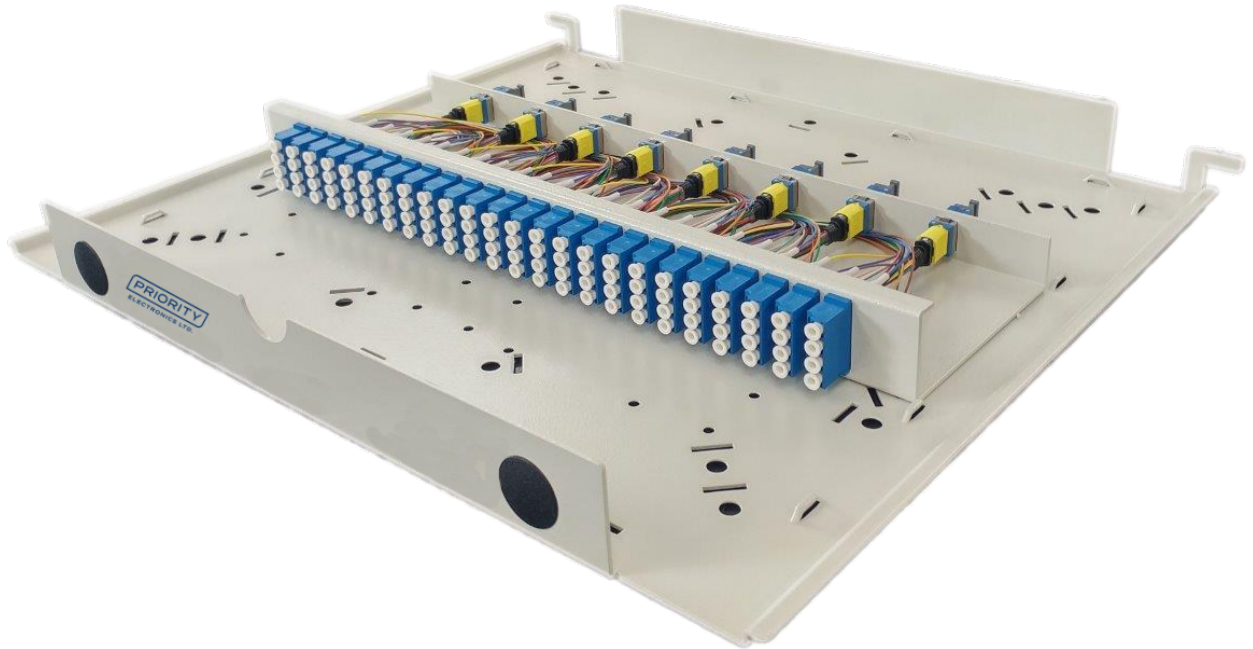


Figure 19

6.0 Adapter Plate Options

The panel can accommodate up to 2 adapter plates in the following single-mode or multi-mode adapter styles and densities:

SC, ST, FC - 6 ports

SC, LC - 12 ports

HD LC - 24 ports

The exception is the Ultra High Density option which consists of a single 96LC adapter plate shown in Figure 19.



6 Pack ST or FC (ST Shown)



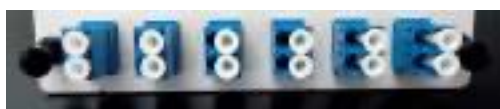
6 Pack SC
Available in - Blue, Green, Beige, Black, Aqua



12 Pack SC
Available in - Blue, Green, Beige, Black, Aqua



Quick Deploy 12 Pack SC
Available in - Blue, Green, Beige, Black, Aqua



12 Pack LC (SC Footprint)
Available in - Blue, Green, Beige, Aqua



24 Pack LC (HD LC Only)
Available in - Blue, Green, Beige, Aqua

Figure 20

7.0 Ordering Information

Contact Priority for part numbers specific to the required configuration.

Notes

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