

### High-Density 1RU Fiber Patch Panel

#### Holds up to 96 Fibers and Pre-Loaded with Adapters

The High-Density 1RU Fiber Patch Panel is used to house fiber terminations and accommodate patching of low and high density fiber cable breakouts while minimizing the space required in a rack.

The slim 1RU enclosure can be installed into EIA 19" or 23" equipment racks, and is designed to occupy the minimum amount of rack space while offering a generous capacity up to 96 fibers. Patch panels come pre-loaded with your choice of adapters.

It is constructed of durable powder coated steel with removable front connector panel and cover for easy access to fiber optic cables. The self sealing rubber grommets and internal fiber cable spools are included to provide convenient installation of the High-Density Fiber Patch Panel.

### Key Features

- Includes rubber fiber grommets
- Removable front and top panels
- Includes internal cable management spools
- Comes complete with 19" and 23" rack ears
- Size: H1.75" x W17" x D8.0" – 1RU
- SC, ST, LC, MTRJ, or FC Adapters Available
- Made in USA

### Accessories

The RLH fiber distribution units come complete with all the accessories needed for a professional installation. The units come preloaded with adaptors and storage spools. Inside packaged together is a set of cable ties, anchors and mounting hardware. The distribution unit can be ordered with jumpers pre-installed upon request. Contact your RLH representative for more information.



High-Density 1RU Fiber Patch Panel



Open

### **Rack Mounting**

Choose a suitable 19"/23" equipment rack location, with room for the fiber routing and easy access to the interior. For 23" rack installations, use the included supplemental hardware to fasten the 23" rack adapter plates to the 19" rack ears. Pre-position the unit in the rack to plan out fiber cable routings and check for any potential problems with the location. Once the position is checked, fasten the unit to the equipment rack rails with the included rack mount hardware.

### **Installing Fiber Cables**

#### **Guidelines for handling terminated fiber cable**

Choose a suitable location, with room for the door to open fully for easy access to the interior. Pre-position the patch panel to plan out cable routings and check for any potential problems with the location. The patch panel may be mounted in any orientation making it a flexible solution in the field.

Once the position is determined, mark out the mounting points and use the included hardware to mount the patch panel when mounting to wood surfaces. For all other mounting applications, use the appropriate mounting hardware as required.

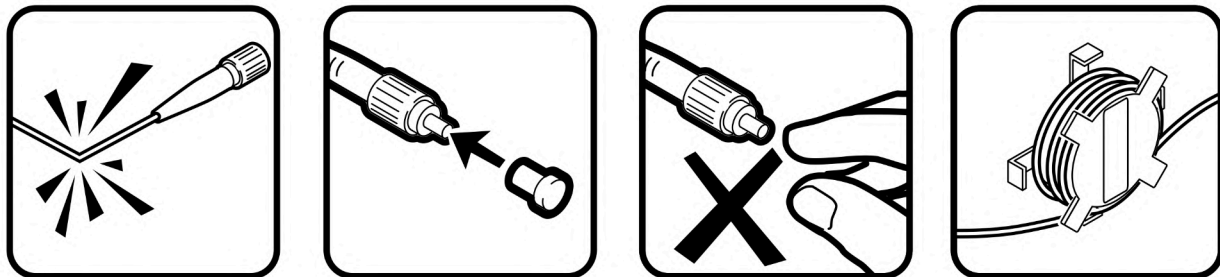
### **General Safety Practices**

The equipment discussed in this document may require tools designed for the purpose being described. RLH recommends that service personnel be familiar with the correct handling and use of any installation equipment used, and follow all safety precautions including the use of protective personal equipment as required.

#### **CAUTION - SEVERE SHOCK HAZZARD**

- Never install during a lightning storm or where unsafe high voltages are present
- Use caution when handling copper wiring and follow appropriate safety regulations

#### **Guidelines for Handling Terminated Fiber Cable**



- Do not bend fiber cable sharply; use gradual and smooth bends to avoid damaging glass fiber
- Keep dust caps on fiber optic connectors at all times when disconnected
- Do not remove dust caps from unused fiber
- Keep fiber ends and fiber connectors clean and free from dust, dirt and debris; contamination will cause signal loss
- Do not touch fiber ends
- Store excess fiber on housing spools or fiber spools at site

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### Key Specifications

|                                  |   |                 |
|----------------------------------|---|-----------------|
| <b>Hi-Density Adaptor Plate:</b> | Simplex   | 24 to 48 Fibers |
|                                  | Duplex  | 24 to 48 Fibers |
|                                  | Quad  | 96 Fibers       |
| <b>Connectors:</b>               | ST-ST Simplex, Duplex<br>SC-SC Simplex, Duplex<br>SC-APC Simplex<br>APC-SC Simplex, Duplex<br>LC-LC Simplex, Duplex, Quad<br>MTRJ-MTRJ Duplex<br>FC-APC Simplex, Duplex   |                 |
| <b>Mounting Style:</b>           | Standard EIA 19"/23" rack mount   |                 |
| <b>Environmental:</b>            | Indoor type hi-density design   |                 |
| <b>Construction:</b>             | <ul style="list-style-type: none"> <li>- Powder coated welded steel</li> <li>- Hi-Density adaptor plate and top are removable for easy access to the fiber</li> <li>- Includes fiber management spools, self sealing cable grommets, fiber cable mounting hardware, 19"/23" rack adapter ears and rack mounting hardware</li> </ul> |                 |
| <b>Dimensions:</b>               | 17" (W) x 8" (D) x 1.75" (H), (432 mm x 204 mm x 45 mm)   |                 |
|                                  | *Not including ears, 1RU = 1.75 inches  |                 |

**Ordering Information**

| Fibers | Adapter | Mode       | Fiber Type | Adapter Color      | Plex    | Part Number |
|--------|---------|------------|------------|--------------------|---------|-------------|
| 24     | SC      | Multimode  | OM1/OM2    | Beige              | Simplex | PRHD-13-1   |
| 24     | SC      | Multimode  | OM1/OM2    | Beige              | Duplex  | PRHD-14-1   |
| 48     | LC      | Multimode  | OM1/OM2    | Beige              | Duplex  | PRHD-22-1   |
| 96     | LC      | Multimode  | OM1/OM2    | Beige              | Quad    | PRHD-23-1   |
| 24     | ST      | Singlemode | OS1/OS2    | Metal - Yellow Cap | Simplex | PRHD-01-1   |
| 48     | ST      | Singlemode | OS1/OS2    | Metal - Yellow Cap | Simplex | PRHD-02-1   |
| 24     | ST      | Multimode  | OM1/OM2    | Metal - Black Cap  | Simplex | PRHD-03-1   |
| 48     | ST      | Multimode  | OM1/OM2    | Metal - Black Cap  | Simplex | PRHD-04-1   |
| 24     | FC      | Singlemode | OS1/OS2    | Metal - Yellow Cap | Simplex | PRHD-05-1   |
| 48     | FC      | Singlemode | OS1/OS2    | Metal - Yellow Cap | Simplex | PRHD-06-1   |
| 24     | FC/APC  | Singlemode | OS1/OS2    | Metal - Green Cap  | Simplex | PRHD-09-1   |
| 48     | FC/APC  | Singlemode | OS1/OS2    | Metal - Green Cap  | Simplex | PRHD-10-1   |
| 24     | SC      | Singlemode | OS1/OS2    | Blue               | Simplex | PRHD-11-1   |
| 48     | SC      | Singlemode | OS1/OS2    | Blue               | Duplex  | PRHD-12-1   |
| 24     | SC/APC  | Singlemode | OS1/OS2    | Green              | Simplex | PRHD-15-1   |
| 48     | SC/APC  | Singlemode | OS1/OS2    | Green              | Duplex  | PRHD-16-1   |
| 24     | SC      | Multimode  | OM3/OM4    | Aqua               | Simplex | PRHD-17-1   |
| 48     | SC      | Multimode  | OM3/OM4    | Aqua               | Duplex  | PRHD-18-1   |
| 48     | LC      | Singlemode | OS1/OS2    | Blue               | Duplex  | PRHD-20-1   |
| 96     | LC      | Singlemode | OS1/OS2    | Blue               | Quad    | PRHD-21-1   |
| 48     | LC      | Multimode  | OM3/OM4    | Aqua               | Duplex  | PRHD-24-1   |
| 96     | LC      | Multimode  | OM3/OM4    | Aqua               | Quad    | PRHD-25-1   |
| 48     | LC/APC  | Singlemode | OS1/OS2    | Green              | Duplex  | PRHD-26-1   |
| 96     | LC/APC  | Singlemode | OS1/OS2    | Green              | Quad    | PRHD-27-1   |
| 48     | MTRJ    | Multimode  | OM1/OM2    | Black              | Simplex | PRHD-30-1   |

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