Introduction

The EPCH Series of Protected Patch Panels helps ensure the reliable operation of equipment utilizing CAT5 Ethernet, 100Base-T, T1, ISDN, and telco protocols where system availability is absolutely critical.

EPCHs Offer

- State-of-the-art, avalanche diode and thyristor technology
- Self-resetting, 1500 watt, bi-directional circuit
- Convenient, integral, wiring management system

You Receive

- Affordable, superior, equipment protection
- Improved reliability and maximized system up-time
- Adaptability to most industry applications

Installation

- Remove power to the unprotected equipment
- Mount the patch panel to your 19” relay rack using the supplied hardware
- Disconnect the incoming data lines from the equipment
- Attach the ground strap to your rack. The installer should confirm a proper rack to earth ground connection. Consult with an electrician if needed. Try to keep the resistance from the supplied fork terminal ground to the rack frame minimal. It is imperative that both the EPCH and the equipment to be protected are properly grounded for effective operation.
- Using a 110 punch-down tool, install the cable “22-26 AWG wire” matching the color code on the 110 IDC (Insulation Displacement Contact)
- Maintain pair twist, up to point of termination, for maximum performance (untwist less than 0.5”)
- Connect the patch panel to the equipment

Note: These protectors reset themselves after protecting equipment from surges. In the event that lightning or other extreme surge events have exceeded the maximum capability of the protector, these devices are designed to self-destruct in a ‘fail-safe’ mode rather than allow damage to equipment. Installations often require a protector at each end of the data line (call our technical support group with any questions).

Warranty

Eaton Corporation offers a standard 5-year warranty for data communications surge protection. For more information, visit www.EatonElectrical.com.
### Electrical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Standard Clamp Voltage</th>
<th>Peak Pulse Current (10/1000 us s.c. Waveform @ Vcl)</th>
<th>Response Time</th>
<th>Maximum Shunt Capacitance</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/100Base-T CAT5 Ethernet</td>
<td>12 Volts</td>
<td>97 Amps</td>
<td>&lt; 5 Nanoseconds</td>
<td>&lt; 25 pF</td>
</tr>
<tr>
<td>ISDN, T1, DDS (Fused)</td>
<td>60 Volts</td>
<td>50 Amps</td>
<td>&lt; 5 Nanoseconds</td>
<td>&lt; 75 pF</td>
</tr>
<tr>
<td>Dial-up, Modem/Fax (Fused)</td>
<td>240 Volts</td>
<td>75 Amps</td>
<td>&lt; 5 Nanoseconds</td>
<td>&lt; 95 pF</td>
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</tbody>
</table>

### System Application and Catalog Number

<table>
<thead>
<tr>
<th>Connector Type</th>
<th>10Base-T CAT5 Ethernet</th>
<th>ISDN, T1, DDS (Fused)</th>
<th>Dial-up Modem/Fax (Fused)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-Port Flush-mount Unit</td>
<td>All Pins</td>
<td>EPCH12-CS</td>
<td>EPCH12-RJ45-G</td>
</tr>
<tr>
<td>110 Block to RJ45 (Not Shown)</td>
<td>Center 4 Pins (6-Pin Version Available)</td>
<td>EPCH12-RJ45-B</td>
<td>EPCH12-RJ45-G</td>
</tr>
<tr>
<td>24-Port Flush-mount Unit</td>
<td>All Pins</td>
<td>EPCH24-CS</td>
<td></td>
</tr>
<tr>
<td>110 Block to RJ45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>48-Port Stand-off Unit</td>
<td>All Pins</td>
<td>EPCH48-CS</td>
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<tr>
<td>110 Block to RJ45 (Not Shown)</td>
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</tr>
</tbody>
</table>

See Ordering Guidelines below.

Not UL listed.

**Note:** Special configurations available.

### Ordering Guidelines

**Note:** All specifications and dimensions are subject to change without notice.

**Ordering Guidelines**

**Note:** Do not include any dashes, brackets or hyphens in the catalog numbers when ordering.

**Example:** EPCH12-RJ45-B = EPCH12RJ45B.