Coaxial cable and RJ45 surge protective devices protect surveillance systems from damaging overvoltage events.

**Product description:**
Eaton’s Bussmann series data signal surge protective devices help prevent damage to surveillance systems by limiting the damaging effects of overvoltage events.

Coaxial cable SPDs are available in direct and indirect shielding versions to accommodate installation in the system — direct shielding for indoor locations and indirect shielding for exterior locations.

The RJ45 version is well suited for protecting ethernet-based systems whether PoE or not.

**Features and benefits:**
- UL Listed 497B surge protection for data signals protects video infrastructure.
- BNC connected coaxial cable direct and indirect shield SPDs protect video systems indoors and outdoors.
- RJ45 Connected Ethernet SPD fulfills requirements of category 6 for video and power over ethernet (PoE) applications up to 48 volts.
- Easy DIN-Rail mounting with supplied bracket for direct mounting onto a grounded chassis makes installation easy.
- Gas Discharge Tube (GDT) technology helps eliminate leakage current pickup to help assure data integrity.
- Rugged die-cast body provides superior structural integrity over competitive plastic constructions.
- All configurations available for shipment within ten business days with QuikShip service.
**RJ45 connector ethernet data/video and PoE cables**

The DIN-Rail mount BSPD48RJ45 SPD for Ethernet cable systems is easy to install between the patch panel and the active component in new, or retrofitting into existing, installations. It is well suited for Gigabit Ethernet, ATM, ISDN, Voice over IP and power over ethernet (PoE).

- CAT 6 according to ISO/IEC 11801 and in the channel (Class E)
- CAT 6A in the channel according to ANSI/TIA/EIA-568
- Power over Ethernet (PoE+ according to IEEE 802.3at)

See data sheet no. 2160, installation sheet no. 3A1979 and application guide no. 3193.

**BNC coaxial data cable SPDs for video**

BNC cable adapter for protecting coaxial cable-connected video systems.

The BSPD5BNCDD features direct (VCD) shield connection while the BSPD5BNCDI features indirect shield connection (VCID) to prevent leakage pickups that degrade or distort data signals.

- Plug-in surge protective adapter with BNC sockets for easy retrofitting
- Easy mounting on supplied rail terminal lug or standard 35 mm DIN-Rail
- BSPD5BNCDD features direct shielding for indoor applications where leakage current is negligible
- BSPD5BNCDI features indirect shielding for outdoor applications where exposed video equipment is subject to stray leakage currents (see application example for details)

See data sheet no. 2158, installation sheet no. 3A1977 and application guide no. 3193.

**Electrical specifications**

<table>
<thead>
<tr>
<th>SPD type</th>
<th>BNC coaxial</th>
<th>RJ45 ethernet</th>
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<tbody>
<tr>
<td>Connectors</td>
<td>BNC</td>
<td>RJ45</td>
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<tr>
<td>System voltages</td>
<td>5V</td>
<td>48V</td>
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<td>RoHS compliant</td>
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<td>Yes</td>
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*See warranty details in 3A1602.

**Application example — direct and indirect shield BNC coaxial cable SPDs**

Apply the direct shield BSPD5BNCDD coaxial cable SPD at the indoor equipment location.

Apply the indirect shield BSPD5BNCDI near outdoor, exterior equipment location.

The indirect shield grounding on the exterior device will help avoid picking up leakage currents that can degrade signal quality while providing surge protection when encountering an overvoltage event. See illustration for installation locations.