



# Surge Protection Made Simple™

Data Signal SPDs

**COOPER** Bussmann

## Complete Data Signal Surge Protection for Telecom and Instrumentation Applications

- UL 497B Listed to protect equipment and wiring against the effects of excessive currents caused by lightning
- BNC Coax Cable, RJ45 / Ethernet Data Cable and Universal 4-Pole versions available for popular data signal applications
- DIN-Rail mount makes installation easy
- Universal 4-Pole SPD is easy to apply in most instrumentation applications up to 180V
- Data signal SPDs complement SurgePOD™ Type 1 and DIN-Rail UL/Low Voltage surge product lines for comprehensive system overvoltage protection



## For BNC Coaxial Data Cables

BNC Cable surge protective devices for coaxial cable-connected systems. The BSPD5BNCDD features direct (VCD) shield connection while the BSPD5BNCDI features indirect shield connection (VCID) to prevent leakage pickups.

- Plug-in surge protective device with BNC sockets for easy retrofitting
  - BSPD5BNCDD and BSPD5BNCDI mount on supplied rail terminal lug or standard 35mm DIN-Rail
  - Inline BSPD5BNCSI plugs into terminal equipment to provide surge protection
- See Data Sheets # 2158 & # 2159



BNC Coaxial Cable

## For RJ45 Connector Ethernet Data 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)
  - Power over Ethernet (PoE+ according to IEEE 802.3at) up to 57 volts
- See Data Sheet # 2160



RJ45 Ethernet

## For Measurement, Control and Regulation Circuits, and Twisted Pairs

Universal 4-pole, DIN-Rail mounted surge arresters provide effective protection with minimum space requirements and are designed for stringent requirements on the availability of measurement, control and regulation circuits, and bus systems.

- Function-optimized design for safe use and easy installation
- Module removal without signal interruption via “make-before-break” circuitry
- 0-180V BSPD0180DINL automatically adjusts to system operating voltage and can protect data circuits of different voltages to a maximum 100mA load current

See Data Sheet # 2161



Universal 4-Pole

## Warranty

Five years on all data signal SPD products. See Cooper Bussmann SPD Limited Warranty Statement (3A1502) for details at [www.cooperbussmann.com/Surge](http://www.cooperbussmann.com/Surge).

## Electrical Specifications

SPD Type	BNC Coaxial Cable	RJ45 Ethernet	Universal 4-Pole
Connectors	BNC	RJ45	Screws
System Voltages	5V	48V	0-180V
MCOV DC	6.4-8V	48V	6-180V
Grounding	DIN-Rail/Conductor	DIN-Rail	DIN-Rail
Protection	IP20	IP20	IP20
Operating Temp Range	-40°C to +80°C	-40°C to +80°C	-40°C to +80°C
Housing Material	Zinc Die Cast	Zinc Die Cast	Polyamide PA 6.6
Agency Information	UL Listed 497B	UL Listed 497B	UL Listed 497B
RoHS Compliant	Yes	Yes	Yes