



# DC Signal Line Surge Protectors

## MJ8 Series



MJ8-CAT5E



The MJ8 Series is designed to protect sensitive data-monitoring equipment connected to various network protocols from transient over voltages.

The MJ8 Series surge protector is deployed in a RS-485 signal network applications with data transmission speeds of up to 1000 Mbps. The surge protector is housed in a shielded enclosure with high quality shielded RJ45 jacks.

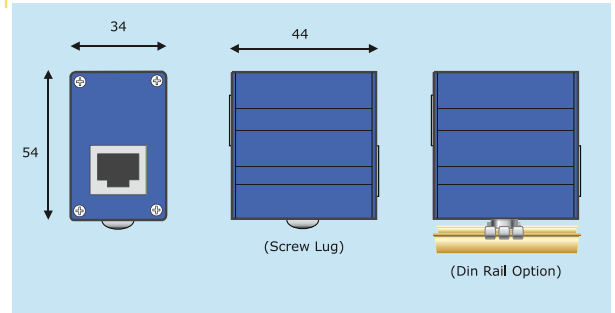
The transient protection circuit is based on high energy gas discharge tubes (GDT) and a network of fast response silicon avalanche diodes (SAD) to achieve sharp clamping of very large surge events.

- 10/100/1000 Base T compatible
- Shielded enclosure and RJ connectors
- 2 kA discharge capability
- IEC 61643-21
- UL497B

### Characteristics

CITEL part number	MJ8-CAT5E	MJ8-12V	MJ8-2RN	MJ8-170V
Max. data rate	1000 Mbps	1000 Mbps	1000 Mbps	1000 Mbps
Max. DC Supply	8 Vdc 600 mA	18 Vdc 600 mA	60 Vdc 600 mA	180 Vdc 600 mA
Pinouts	(1-2) (3-6) (4-5) (7-8)	(1-2) (3-6) (4-5) (7-8)	(3-6) (4-5)	(1-2) (3-6) (4-5) (7-8)
Nominal discharge currents:				
-Line/Line	<500 A @ 8/20 $\mu$ s			
-Line/Ground	2000 A @ 8/20 $\mu$ s			
Connections:				
-input	Shielded RJ Connectors			
-output	Shielded RJ Connectors			
Pinout	2 wires + shielding + ground			
Enclosure	Metal			
Ground Connection	Screw Lug, Din Rail Clip or Mounting Flange			
Standard Compliance	IEEE 802-3af (transmission) IEC 61000-4-5 (surge withstand)			

### Dimensions (in mm)



### Electrical Diagram

