

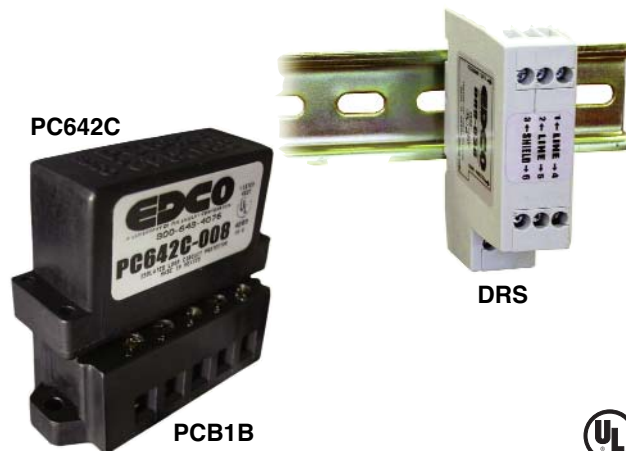


### DESCRIPTION

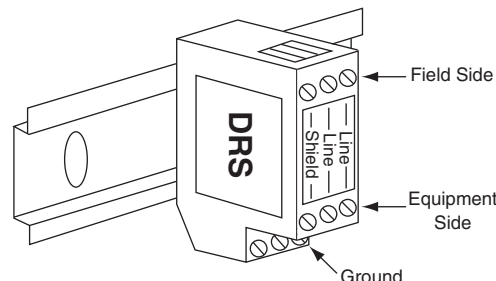
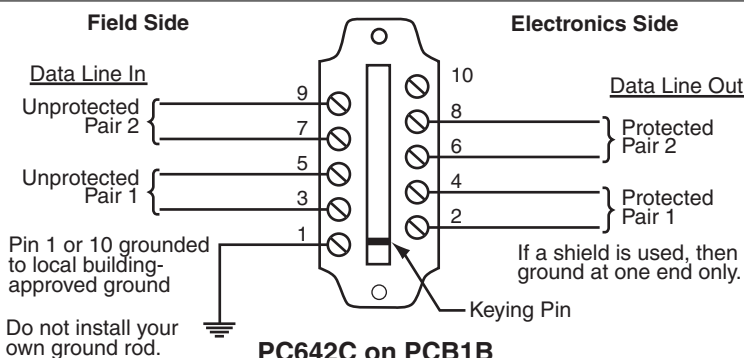
The **Model PC642C Surge Suppressor** is a dual-pair (four-wire) module, and the **DRS Series** is a single-pair (two-wire) DIN rail mount module implementing three-stage hybrid technology. These modules address over-voltage transients with gas tubes and silicon avalanche components. In addition, sneak and fault currents are mitigated with automatic resetting fuses (PTCs). The PTCs increase resistance several orders of magnitude when overcurrents are present and return to normal when overcurrents are removed. The ability to self-restore in this manner significantly increases suppressor performance and survivability.

### FEATURES

- **Lightning protection for low-voltage signal lines**
- **Three-stage protection**
- **Plug-in and DIN rail mount modules**
- **Automatic recovery**
- **Nanosecond response time**



### WIRING



### SPECIFICATIONS

<b>Voltage clamp (<math>\pm 10\%</math>)</b>	8, 15, 30, or 36V	<b>Temp</b>	-40° to 185°F (-40° to 85°C)
<b>Response time</b>	<1 ns	<b>Capacitance</b>	1500 pF; PC642 w/ LC option: 50 pF
<b>Peak surge current</b>	10 kA (8 x 20 $\mu$ s)	<b>Operational current max</b>	150 mA @ clamp voltage
<b>Life expectancy</b>	>100 occurrences @ 2000A, 8 x 20 $\mu$ s	<b>Protector</b>	
<b>Series resistance</b>	5 $\Omega$ nominal	<b>Primary</b>	Three-element gas tube
<b>Dimensions</b>	2.4"H x 1.0"W x 2.0"D	<b>Secondary</b>	Rugged solid-state avalanche diode
<b>PC642C, PCB1B</b>	(6.1 x 2.5 x 5.1 cm)	<b>Third</b>	Positive temp coefficient device (PTC)
<b>DRS</b>	2.95"H x 0.8"W x 2.35"D	<b>Agency approval</b>	UL497B, File #E175287
	(7.5 x 2.0 x 6.0 cm)	<b>Weight</b>	8 oz (0.23 kg)
		<b>Warranty</b>	1 year

### ORDERING INFORMATION

MODEL	DESCRIPTION
<b>PC642C</b>	Dual-pair (four-wire) surge protector, base mount (PCB1B required)
<b>DRS</b>	Single-pair (two-wire) surge protector, DIN rail mount
	<b>-008</b> Clamp voltage, 8V
	<b>-015</b> Clamp voltage, 15V
	<b>-030</b> Clamp voltage, 30V
	<b>-036</b> Clamp voltage, 36V
	<b>-LC</b> Low capacitance option (PC642C only)
<b>PCB1B</b>	Mounting/connector base for PC642C