

### Traffic Signaling Products

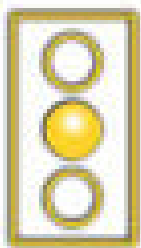


EDCO PCB1B BASE SOLD SEPARATELY

The **PC642 Series** surge suppressor is a dual pair (four wire) module implementing three-stage hybrid technology. This module addresses over voltage transients with gas tubes and silicon avalanche components. In addition, sneak and fault currents are mitigated with resettable fuses (PTCs). The PTCs increase resistance several orders of magnitude when over currents exceed safe levels. A normal state resumes when over currents are removed. The ability to self restore in this manner significantly increases suppressor performance and survivability.

The **PC642** card edge module is gold-plated, double sided and is designed to mate with the **PCB1B** gold-plated female terminal connector (sold separately). When snapped together, the data circuits “pass thru” the protector in a serial fashion from the four “Field Side” terminals to the four “Electronics Side” terminals. Terminals 1 or 10 of the **PCB1B** must be attached to building approved ground.

Keeping  
You  
Connected!



**NEED HELP?**  
Call 1-800-648-4076

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Ocala, Florida 34470

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<http://www.edcosurge.com>



#### FEATURES

- Three-Stage Hybrid Protection
- Sneak/Fault Current Protection
- Resettable Solid-State Fuses – PTC’s
- Low Capacitance Option
- Plug-in Module / Requires PCB1B Base
- Fast Response Time
- UL Listed 497B



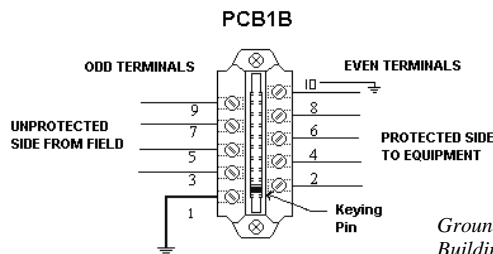
#### SPECIFICATIONS

Operating Voltage	5, 12, 18, 24, 36, 52, 180 VDC
Clamping Voltage	8, 15, 20, 30, 43, 60, 270 VDC
Operating Current	0.15 A
Peak Surge Current	10 kA (8 x 20)
Frequency Range	0 to 20 MHz
Insertion Loss	< 0.1 dB at 20 MHz
SPD Technology	GDT, SAD, w/ Series PTC
Connection Type	Term. blk w/ compression lugs
Operating Temperature	-40 C to +85 C
Dimensions	(Inches, PC642 + PCB1B Base) 2H x 1W x 2.5L
Weight	1 oz
Certifications	UL 497B, ISO 9001:2000

#### APPLICATIONS

4-20 ma	PC642C-036 & PCB1B
RS232	PC642C-020 & PCB1B
RS485, RS422	PC642C-008LC & PCB1B
RS423, Token Ring	PC642C-008LC & PCB1B
E-NET, 10/100 BaseT	PC642C-008LC & PCB1B

#### INSTALLATION



#### ORDERING INFORMATION

PC642C	←	←	
Voltage Clamp			
8 Volts.....008		No suffix, 2 <sup>nd</sup> stage clamp, ea. L-G	□
15 Volts.....015		2 <sup>nd</sup> stage clamp	□
20 Volts.....020		L-L only	D
30 Volts.....030		2 <sup>nd</sup> stage clamp, L-L and ea. L-G	X
36 Volts.....036			
43 Volts.....043			
50 Volts.....050			
60 Volts.....060			
200 Volts.....200		Low capacitance, 2 <sup>nd</sup> stage clamp, L-L and ea. L-G	LC

Ground Terminal 1 OR 10 (internally tied together) to Building Approved Ground. (See EDCO Tech Bulletin #2015)  
Do NOT Daisy Chain grounds. NOT intended for shield termination.  
Install ground in accordance with all applicable codes.  
PCB1B accommodates 26 to 10 AWG wire.