



EDCO PCB1B BASE SOLD SEPARATELY

Edco PC642 Series Zone/Loop/Data

The Edco PC642 Series surge suppressor is a two-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 Edco PC642 card edge module is gold-plated, double-sided, and is designed to mate with the Edco PCB1B gold-plated female terminal connector. 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 Edco PCB1B must be attached to Building-Approved Ground per Edco Technical Bulletin # 2015.

Features

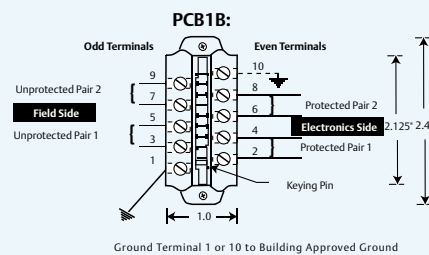
- Three-stage hybrid protection
- Sneak/fault current protection
- Resettable fusing — PTCs
- Low capacitance option
- Plug-in module
- Fast response time
- Requires Edco PCB1B base
- PC642PTU (Pass Thru Unit) available for troubleshooting
- 5 year warranty

General Technical Specifications

Operating Voltage	5, 12, 18, 24, 30, 36, 43, 52, 180 VDC
Clamping Voltage	8, 15, 20, 30, 36, 43, 50, 60, 200 VDC
Operating Current	0.15 A
Peak Surge Current	10 kA (8 x 20 μs)
Frequency Range	0 to 20 MHz
Insertion Loss	< 0.1 dB at 20 MHz
SPD Technology	GDT, SAD, w/ Series PTC
Connection Type	Terminal block w/compression lugs Terminals accept up to 10 AWG
Operating Temperature	-40°C to +85°C
Dimensions (Inches)	2H x 1W x 2.5L (PC642 + PCB1B Base)
Weight	1 oz
Certifications	UL 497B

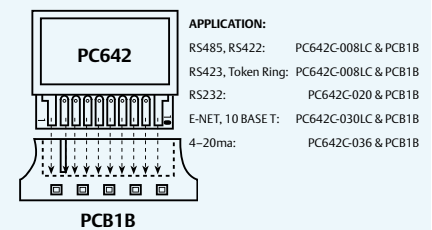
Caution: The hybrid design of this product includes series resistance. Do not place this product in service on any signal line capable of supplying more than 150 milliamperes continuously.

Terminal Assignments



DO NOT daisy chain grounds. NOT intended for shield termination. Install ground in accordance with all applicable codes.

Ordering Information



APPLICATION:	
RS485, RS422:	PC642C-008LC & PCB1B
RS423, Token Ring:	PC642C-008LC & PCB1B
RS232:	PC642C-020 & PCB1B
E-NET, 10 BASE T:	PC642C-030LC & PCB1B
4-20ma:	PC642C-036 & PCB1B

How to Specify the Appropriate Model

PC642C -			
VOLTAGE CLAMP			
8 Volts	0	0	8
15 Volts	0	1	5
20 Volts	0	2	0
30 Volts	0	3	0
36 Volts	0	3	6
43 Volts	0	4	3
50 Volts	0	5	0
60 Volts	0	6	0
*200 Volts	2	0	0

*Not UL Listed

no suffix
stage 2 clamp
each line-to-ground
stage 2 clamp
line-to-line only
D
stage 2 clamp line-to-line
and each line to ground
X
low capacitance option stage
2 clamp line-to-line and each
line to ground
LC