



Plug-in Module with Standard Base



Plug-in Module with Optional DIN Rail Mounting Clip

STC-642 SERIES

The STC-642 Series of surge suppressors are dual pair (four wire) modules using three-stage hybrid technology. This module addresses overvoltage 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.

APPLICATIONS


- Intended for indoor use on communication loop circuits which have been isolated from the Public Switch Telephone Network
- Ideal for RS232 applications
- Works well for 4-20 mA signal applications
- For use in service capable of supplying less than 150 milliamperes continuously

FEATURES

- Surge protection for low voltage data signal lines
- Three-stage protection (SAD, GDT, PTC)
- Sneak/fault current protection
- Resettable solid-state fuses - PTCs
- Low capacitance option for high speed data
- Plug-in module with base included
- Optional DIN Rail Mounting Clip is available for use with the Plug-in module in place of the standard base

- Hybrid design of includes series resistance
- Fast response time
- Five year limited warranty

CERTIFICATIONS AND COMPLIANCES

-  Listed
 - UL 497B
- RoHS Compliant

SELECTION TABLE

| Catalog Number | Description |
|----------------|---|
| STC642036 | 5-36 Vdc Operating Voltage. Includes module base, designed to accommodate up to 10 AWG wire. The base offers Flat/Philips screws and can be mounted using 2 #6 size screws. |
| STC642DINKIT | Optional DIN Rail Mounting Clip for STC642DINKIT |

SOLAHD For product information:
www.solahd.com
 1.800.377.4384

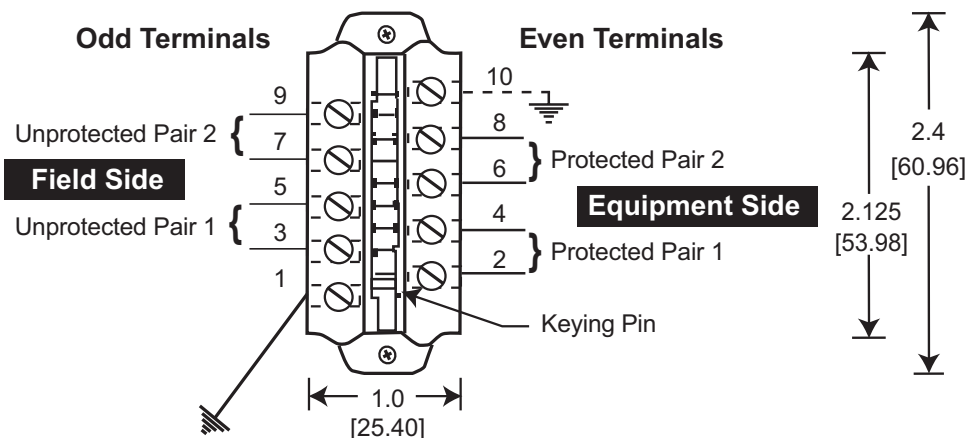


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SPECIFICATIONS

| Description | STC642036 |
|--------------------------------|---|
| Peak Surge Current | 8x20 μs at 10 kA |
| Life Expectancy | 8x20 μs (2000 A) at >100 occurrences |
| Response Time | <1 nanosecond |
| Voltage Clamp | 5-36 Vdc |
| Technology | GDT/PTC/SAD Hybrid |
| Resistance | 5 Ohms (typical) |
| Capacitance (typical) | 1500 pf |
| Operating Temperature | -40 °C to +85 °C (-40 °F to +185 °F) |
| Weight - oz (g) | 2 (56.7) |
| Dimensions H x W x L - in (mm) | 2.05 x 1.00 x 2.40 (52.1 x 25.4 x 61.0) |
| Warranty | 5 year limited warranty |

WIRING DIAGRAM (PIN ASSIGNMENTS)



Ground Terminal 1 or 10 (internally tied together) to building approved ground (preferably AC Power ground).