

STC-642 Series, Data/Signal Line Protection



Features

- Lightning Protection for Low Voltage Data
- Signal Lines
- Three-Stage Protection
- Sneak / Fault Current Protection
- Resettable Solid-State Fuses - PTCs
- Low Capacitance Option for High Speed Data
- Plug-in Module / Requires STC-PCB1B Base
- Fast Response Time
- UL Listed 497B
- 5 Year Warranty

The STC-642 series of surge suppressors are dual pair (four wire) modules using 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 current 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.

Specifications

Description	STC-642-020	STC-642-036
Peak Surge Current (10 Times)	5	
Life Expectancy	8 x 20 s (2000A) .. >100 occurrences, 10 x 700 s (400A)	
Response Time	<1ns	
Voltage Clamp	20	36
Technology	SAD Hybrid	
Resistance	5 (typical)	
Capacitance (typical)		
Standard Models	1500pf	
Low Capacitance Models	50pf	
Operating Temperature	-40°C to +85°C	
Weight	2 oz	
Dimensions (STC-642)	2.05 x 1.0 x 2.4	
H x W x L		
Certifications	UL 497B	
Warranty	5 year	

Accessories

Catalog Number	Description
STC-PCB1B	Base for all STC-642 models. Designed to accommodate up to 10 AWG wire. It offers flat / phillips screws and can be mounted using two #6 size screws.
STC-FM4-DRC	Din Rail Mounting Clip For PCB1B

PINS Assignments STC-PCB1B



Ground Terminal 1 or 10 (internally tied together) to building approved ground. STC-PCB1B accommodates 24 to 10 AWG wires.

NOTES: 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. These protectors are intended for indoor use on cummunication loop circuits which have been isolated from the Public Switch Telephone Network.

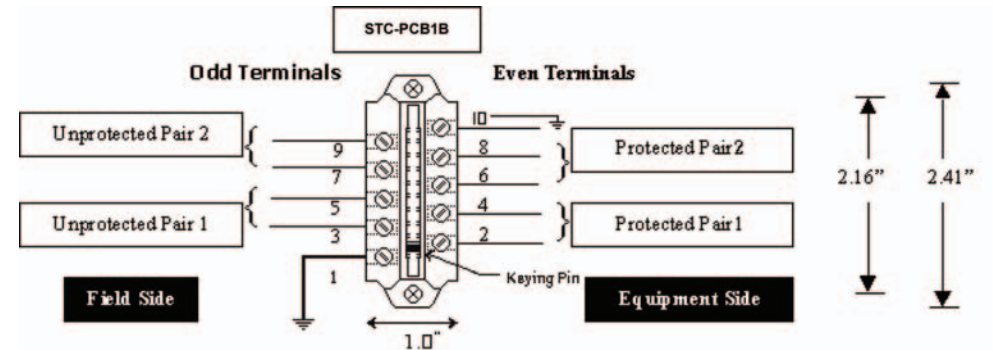
The communication loop circuits shall not be exposed to accidental contact with the lectric light or power conductors. The protectors shall be installed per the applicable requirements of the National Electric Code, ANSI/NFPA 70.

Application

STC-642-036 & STC-PCB1B: 4-20 ma signal

STC-642-020 & STC-PCB1B: RS232

Installation Instructions



Ground Terminal 1 or 10 (internally tied together) to building approved ground. STC-PCB1B accommodates 24 to 10 AWG wires.

These protectors are intended for indoor use on communication loop circuits which have been isolated from the Public Switch Telephone Network.

The communication loop circuits shall not be exposed to accidental contact with the electric light or power conductors. The protectors shall be installed per the applicable requirements of the National Electric Code, ANSI/NFPA 70.

DO NOT DAISY CHAIN GROUNDS. NOT INTENDED FOR SHIELD / DRAIN WIRE TERMINATION. INSTALL GROUND IN ACCORDANCE WITH ALL APPLICABLE CODES. STC-PCB1B BASE SOLD SEPARATELY.