

## STC-P0E Series, Category 5 and 6 Power-over-Ethernet Applications

The SolaHD STC Power-over-Ethernet (PoE) series is designed to work on Category 5 P0E transmission lines as well as Category 6 applications. They feature both female to female and male to female RJ-45 connection options for ease of installation.

Power-over-Ethernet is a technology for wired Ethernet LANs (Local Area Networks) that allows the electrical current to be carried by the data cables rather than power cords. This minimizes the number of wires that must be strung in order to install the network. The result is lower cost, less downtime, easier maintenance and greater installation flexibility than with traditional wiring.

P0E allows users to power devices over Ethernet cabling. Power and networking is provided over a single cable. PoE has tremendous advantages in industrial applications. The ease of combining signal and power in a single Ethernet cable connection is contributing to the already rapid evolution of Ethernet-based industrial control systems. Category 5e and Category 6 commonly known as Cat5e and Cat6 are the most widely used Ethernet connectivity methods on the market today. Cat5e and Cat6 are defined in ANSI/TIA/EIA 568-B standard for Unshielded Twisted Pair Cabling.



The STC-P0E series is ideally suited to protect expensive equipment and critical communication/data transfer from internally generated transients and noise.

### Features

- Exceeds CAT 5 PoE & 6 transmission values
- Applications up to 60 Vdc @ 300 mA
- Three year limited warranty

### Selection Table

Catalog Number	Description
STC-P0E-65FF	Female to Female Connector
STC-P0E-65MF	Male to Female Connector

### Specifications

Description	STC-P0E-65FF	STC-P0E-65MF
Mode of Protection	Normal Mode (L-L) All Lines (1-8) Protected	
DC Breakover Voltage	65 Vdc	
Insertion Loss	< .1 dB	
Certified Transmission Speeds	10baseT, 100baseT, 1000baseT	
Peak Surge Energy	300 Watt	
Response Time	<1 ns	
Connectors	RJ-45 (Female — Female)	RJ-45 (Male — Female)
Dimensions – in (mm)	2.30 x 1.00 x .80 (58.4 x 25.4 x 20.3)	3.00 x 1.00 x .80 (76.2 x 25.4 x 20.3)
Warranty	3 year limited warranty	