

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

The SolaHD STC Power-over-Ethernet (PoE) series is designed to work on Category 5 PoE 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.

PoE 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.

Selection Table

Catalog Number	Description
STC-P0E-65FF	Female to Female Connector
STC-CAT6-P0E-I	Female to Female Connector with isolated ground
STC-C6-MP4	CAT 6 PoE Mounting Plate

Specifications

Description	STC-P0E-65FF	STC-CAT6-P0E-I
Mode of Protection	Normal Mode (L-L) All Lines (1-8) Protected	All Lines (1-8) Protected (L-L) and (L-G) Signal High-Low; High-Ground; Low-Ground
DC Breakover Voltage	60 Vdc	
Insertion Loss	< .1 dB	
Certified Transmission Speeds	10baseT, 100baseT, 1000baseT	
Peak Surge Energy	300 Watt	750 Watt
Response Time	<1 ns	
Connectors	RJ-45 (Female - Female)	
Dimensions - in (mm)	2.30 x 1.00 x .80 (58.4 x 25.4 x 20.3)	5.40 x 1.60 x 1.70 (137.2 x 40.7 x 43.2)
Warranty	3 year limited warranty	5 year limited warranty



The STC PoE 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

STC-PoE-65FF

Features

- Single use design
- 60 Vdc @ 300 mA continuous
- Cost effective protection

STC-CAT6-PoE-I

Features

- Hybrid PTC (positive temperature coefficient) resettable fuse - up to 5,000 times
- 60 Vdc @ 750 mA continuous
- Isolated ground available
- 10kA peak surge current
- Premium protection