



### Key Specs:

- Operating Volt./Current: Combination Unit
- Clamping Volt: Power:70VDC, Data & Video: 6VDC
- Surge Capacity: 20 kA
- Connection: 8 (4 Independent Channels) RJ45 Female Connection Jacks, 8 Pin

### Features:

- High Energy Gas Discharge Tube and Silicon Avalanche Diode Multi Stage Hybrid Technology
- Aluminum Enclosure
- Conformal Coating to protect circuitry
- Auto Resettable Transition Fuse Circuit
- Sneak/fault current protection
- Three Separate Circuits
- Individual hybrid circuits for power, data, and video
- DIN Mount Preinstalled
- 5 Year Warranty

### Why Install Tier 100 HVCP48-4X?

Cameras used for traffic control are relied upon and expected to consistently capture and transmit information, even when weather conditions are severe .

A simple way to protect sensitive equipment, is to install a Tier-1 HVCP48-4X. With a three-stage circuit providing high-energy protection for power, data, and video; the HVCP48-4X is the clear choice for any critical location.

The Southern Tier Technologies Tier 100 HVCP48 4X is an advanced hybrid surge protective device (SPD) featuring DC power, data, and video protection in one compact package. The 4X has 4 independent protection ports(4 in and 4 out). Each circuit is capable of handling high-energy events, and protecting your most sensitive equipment. The hybrid design features a three stage protection circuit with gas discharge tubes (GDTs), silicon avalanche diodes (SADs), and an auto resettable transition fuse circuit for maximum energy handling capability and transient response. Each three-stage protection circuit has 3 circuits; DC power, Data, and Video circuits.

These advanced hybrid units are the perfect solution for power, data, and video protection, where multiple independent runs need superior protection capabilities. These are made-to-order units and can be customized to meet the demands on a specific job. Please contact the factory with specifications.

Monitoring for public safety, traffic control or loss prevention is an integral part of our world today. As a result, the equipment used is changing quickly, incorporating intelligent features that rely upon signal-carrying circuits. While these changes become more sophisticated, they also are more susceptible to transients and surges.

The Tier 100 HVCP48-4X is designed to protect DC power, data, and video in one easily connected product. The product includes 4 independent ports with three separate circuits, each protected by our advanced hybrid three-stage protection, capable of diverting high-energy transient events that would otherwise disrupt data and damage equipment.

### General Technical Specifications

DC Power Protection	
Operating Voltage	48 VDC
Clamping Voltage	70 VDC
Operating Current	3 Amp
Peak Surge Current	20 kA (8x20 us)
SPD Technology	GDT, SAD, Transition Circuit
High Speed Data Protection (SDIO)	
Clamping Voltage	6V SDIO(+)to SDIO(-), 12V SDIO(+) to Gnd & SD IO(-) to Gnd
Operating Current	375 mA
Peak Surge Current	20 kA (8x20 us)
SPD Technology	GDT, SAD, Auto Resettable Transition Fuse Circuit
Video Protection	
Clamping Voltage	6V Video(+)to Video(-), 12V Video(+) to Gnd, 12V Video (-) to Gnd
Peak Surge Current	20 kA (8x20 us)
SPD Technology	GDT, SAD, Auto Resettable Transition Fuse Circuit
General Data	
Ground (in/mm)	Ground Terminal
Connection	4 x RJ45 Female Jacks in, 8 Pin 4 x RJ45 Female Jacks out, 8 Pin
Dimensions (in/mm) (L x H x D)	5.75" x 1.625" x 3.50" (146.05 x 41.275 x 88.9 mm)
Material	Aluminum
External Circuitry Protection	Conformal Coat
Weight (oz/kg)	16.32 oz (0.4627 kg)
Operating Temperature	-40°C ~ +85°C
Operating Humidity	0% to 95% Non-condensing
Mounting	DIN Mount
Warranty	5 Year

### Installation Instructions:

#### T1-HVCP48-4X

- 1) Connect incoming cable assembly to side labelled "Field"
- 2) Connect a second cable assembly from the output of the T1-HVCP48-4X (on side labelled "protected") to the protected device.
- 3) Connect the ground wire (#10-12 awg) to the ground terminal on the HVCP48-4X and to the AC power ground of head-end equipment. Keep the ground wire as short & straight as possible.

