

# CLPS-3009

## Cable Line Surge Suppressor



Developed and patented by Cable Innovations, the CLPS-3009 protects line extenders, amplifiers, fiber nodes and other trunk equipment. The CLPS-3009 combines the latest surge suppression technology ( Sidactor® ) with Cable Innovations' patented design to create the toughest surge suppressor ever built.

If you are currently using any other type of surge suppression, you owe it to yourself and your subscribers to look at Cable Innovations and the CLPS series of surge suppressors.

MODEL #	CLPS-3009
Description	Surge Suppressor
Surge Protection	5000 Amps 8 X 20 $\mu$ s
Power Rating	25 Amps. AC, 60/90 Volts, 60 Hz
Switching Voltage	140V Peak Min. 220V Peak Max.
Response Time	Less than 1 nanosecond

### FEATURES

- **Sidactor® Device** The CLPS-3009 incorporates the newest solid state Sidactor technology, eliminating the need for SCR type surge suppressors.
- **Overvoltages Taken off Center Conductor** Overvoltages go directly to ground from the center conductor, before damage can occur to trunk or feeder line electronics
- **Superior Grounding** The CLPS-3009 grounds from a clamp (located on the bottom of case) using a No. 6 ground wire to make a sweeping bend to pole vertical. Grounding to the strand (the method used by "kits") should not be attempted, because the overvoltage may be induced back onto the center conductor, thus defeating the purpose of the device.
- **High Current Handling**
- **Two (2) Year Warranty**
- **Signal is not interrupted during suppression**
- **Surge Testing ANSI C-62.41 (IEEE 587)**
- **ISO 9001** The CLPS-3009 is manufactured in an ISO 9001 facility
- **100% Voltage tested** Each unit is individually tested for voltage continuity before it leaves our plant

**CABLE**<sup>®</sup>  
I N N O V A T I O N S

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Specifications on reverse side  
Specifications subject to change without notice.

The CLPS-3009 protects trunk line electronics by utilizing Sidactor technology. A Sidactor is a solid state crowbar device designed to protect equipment during hazardous transient conditions. In the standby mode, the Sidactor appears transparent to the circuits it protects, but upon application of a breakover voltage exceeding 135V, the Sidactor will crowbar and simulate a short circuit condition which will divert the overvoltages to ground. Once clear of the high transient condition, the Sidactor will reset and return to its normal high off-state impedance.

### Guaranteed Minimum Performance

Frequency (MHz)	8-54	54-550	550-870	870-1000
Insertion loss (<) dB	0.3	0.25	0.25	0.25
Return loss (>) dB	20	23	23	20
EMI shielding (>) dB	100	100	100	100
Hum modulation @ 10 Amps/90V (>) dB	70	70	70	70

The CLPS-3009 protects those areas that remain unprotected from the CLPS PI series. The CLPS-3009 protects active and passive devices from overvoltages. When combined with the CLPS-3009PI surge suppressor/power inserter complete system protection is assured.

The figures below display examples of network architecture layouts utilizing the CLPS surge suppressor / power inserter series and the CLPS-3009.

