

# Dual Telephone Line Surge Suppressor

## ELK-955

The ELK-955 is a Two-Line RJ31X/38X Telephone Jack containing solid state transient suppression designed to protect the telephone inputs on an alarm control. It responds to power surges and transients in less than 1 nanosecond, automatically restoring after each surge within the specified ratings. The ELK-955 is compact and easy to install and features high quality, clearly labeled screw terminals, 8 pin modular phone connector, built-in tamper loop, and automatic shorting pins for cord removal. The ELK-955 is FCC Registered under part 68 and eliminates the need for a separate RJ31X telephone jack.



## Features

- Superior Solid State Surge Suppression.
- Rapid Response Time.
- Protects Two Incoming Telephone Lines.
- Clamps Line-To-Line & Line-To-Ground.
- Self-restoring After Surges Within Ratings.
- RJ31/38X 8-Pin Modular Jacks.
- Convenient Test points For Lineman's Test set.
- Surface Mount Enclosure.

## Specifications

- Response Time: <1 Nanosecond.
- Breakover Voltage: 300 Volts.
- Peak Pulse Current: 100 Amps.
- Ground Wire: 24" - 14 Gauge Stranded.
- FCC Reg. No.: 5K6USA-23140-XP-N Ren No. 0.0B.
- Size: 4.4" x 3" x 1.15".

# Instructions

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**EGND** Connect to a good quality earth ground using a 14-16 gauge wire. Best choices of ground are: Copper or galvanized rod (6' or longer) driven into the ground OR a metallic cold water pipe. Do not use PVC pipe! If all else fails, a less effective but alternative ground is the screw on the cover of an electrical outlet.

<b>TELCO LINE 1</b>	<b>RING</b>	-	Connect one side of the <b>Incoming Telephone Line</b> pair. (Commonly colored RED)
	<b>TIP</b>	-	Connect the other side of the <b>Incoming Telephone Line</b> pair. (Commonly colored GREEN)
<b>HOUSE PHONE 1</b>	<b>R1</b>	-	Connect one side of the pair returning to the <b>House Phone(s)</b> . (Commonly colored BLACK)
	<b>T1</b>	-	Connect the other side of the pair returning to the <b>House Phone(s)</b> . (Commonly colored YELLOW)
<b>TELCO LINE 2</b>	<b>RING</b>	-	Connect one side of the <b>Incoming Telephone Line</b> pair. (Commonly colored RED)
	<b>TIP</b>	-	Connect the other side of the <b>Incoming Telephone Line</b> pair. (Commonly colored GREEN)
<b>HOUSE PHONE 2</b>	<b>R1</b>	-	Connect one side of the pair returning to the <b>House Phone(s)</b> . (Commonly colored BLACK)
	<b>T1</b>	-	Connect the other side of the pair returning to the <b>House Phone(s)</b> . (Commonly colored YELLOW)

**J1 & J2 8 PIN RJ MODULAR JACK** Utilizing individual 8 wire modular cords, connect the equipment to be protected (Digital Communicator, Telephone Key Set, etc.) to the modular jacks J1 and J2. For optimum surge protection the cords should be 3 feet or longer. Pins 4 & 5 are RING and TIP going to the equipment. Pins 1 & 8 are R1 and T1 returning from the equipment. Pins 2 & 7 are shorted together by jumpers to create closed circuit tamper loops for supervising the modular plug. To convert to resistored EOL circuits, cut the jumpers and attach the required resistors in series with the jumpers.

