

**Transient Voltage
Surge Suppressors By:**

ST-CL48C-2C-K

Conduit Type Current Loop Protection Device



"Our Name Says It All"

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The ST-CL48C-2C-K is a parallel/kelvin connected surge protection device designed to protect highly sensitive current loop circuits, signal lines and/or low speed data lines feeding transducers, leak detectors, flow meters and a broad variety of similar sensory devices from damage due to surges.

This device is mounted using the threaded end of the pipe and capped on one end. It is grounded through use of the green ground wire attached to the unit, as well as its housing. The unique design of these devices makes them among the most versatile TVSS devices on the market with superior performance specs and a warranty that is second to none.

GENERAL

Description:	Parallel wired transient voltage surge suppressor with Optimal Response Network™ circuitry for protection of current loop circuits, signal lines and other low speed data circuits.
Application:	Designed for use with data collection and switching circuits to protect data transmission system equipment from damaging transients generated between terminals and equipment in the data collection/transmission system.
Warranty:	25 Years Unlimited Free Replacement

MECHANICAL

Enclosure:	316 stainless steel, Capped end (CC option only)
Mounting:	NPT threaded housing.
Connection Method:	18 AWG tinned copper wire
Shipping Weight:	< 1 lbs

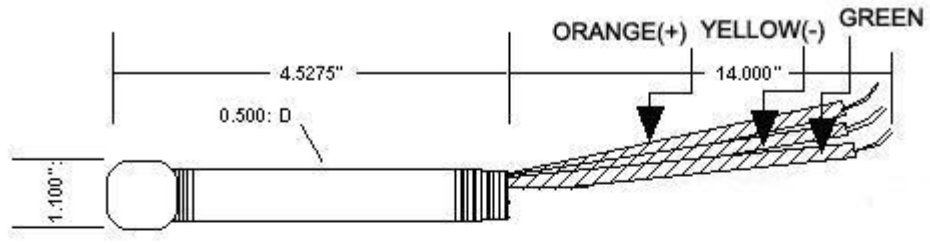
CIRCUITRY

Circuit Design:	Hybrid design incorporating discrete all mode protection and utilizing our encapsulated Optimal Response Network™ design to provide lowest possible let-through voltages. All suppression circuits are encapsulated in our high dielectric compound to assure long component life and complete protection from the environment and/or vibration.
Protection Modes:	Dedicated protection components and circuitry for each mode. Discrete L-L (Normal Mode) and L-G (Common Mode)

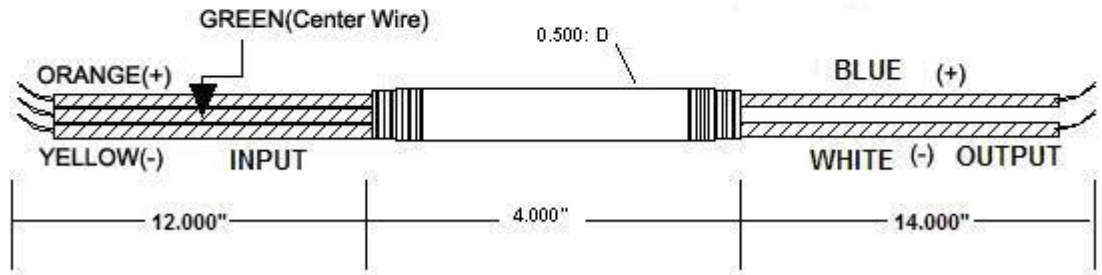
PERFORMANCE

Maximum Continuous Operating Voltage:	48 V
Maximum Continuous Operating Current:	500 mA
Frequency Range:	DC to 2 MHz
Maximum Data Rate:	Up to 2 mbps
Series Resistance:	5 ohms per wire (10 Ohms loop)
Peak Surge Current per Pair:	L-L 10 kA, L-G 10 kA
Response Time:	< 1 ns

Let-Through Voltages Using ANSI/IEEE C62.41.1 & C62.41.2 Test Environment: Static, positive polarity. All voltages are peak ($\pm 10\%$). Time base = 5 ms			
Model	Maximum Continuous Operating Voltages	Test Mode	B3/C1 Impulse Wave 6 kV, 3 kA
ST-CL48C-2C-K	54 V L-G 54 V L-L	L-G L-L	< 80 < 160



Parallel Unit



Series Unit

Actual unit may vary from picture