

# ACT SS64 & SS65 Data/Signal Line Family

## Industrial Data Protection Device



- ▶ The ACT SS64 & SS65 Stainless steel Pipe enclosed protection device is designed to protect data and signal lines in the harshest industrial environments.

This hybrid device combines the strength of gas tube protection with silicon avalanche technology as designed by Bell Labs. In rush current protection is provided by resettable fuses (PTC). This means accidental fault current does not destroy this protector.

This unit is fully encapsulated and is waterproof inside a stainless steel pipe providing an extremely safe installation package.

The ACT SS64 & SS65 is designed to protect any 4-20 mA alarm or control lines.

### Two Protection Styles:

The SS64 is a two wire protector.

The SS65 is a two wire and ground protector.

### ▶ RECOMMENDED LOCATION

- Waste Water Treatment Facility
- Petroleum Locations
- Outdoor Alarm Systems
- Electronic Lock Locations
- Cell Sites
- Well Pumps

### ▶ FEATURES AND BENEFITS

- **2 Modes of Discrete Protection:**  
SS64 protects a single pair T-R; SS65 protects single pair plus cable shield(drainwire) T-R&G
- **Two mounting applications:**  
End to End and End to Cap configuration
- Multi-Stage Hybrid (Gas Tube & Diode) Technology
- 5 -Year Standard Warranty

### ▶ STANDARDS MET

- Safety tested to UL487B
- ANSI/IEEE C62.41, C62.45

### ▶ 3RD PARTY TESTED

- Survives 1,000 (C2 6kV / 500A)

### ▶ GENERAL TECHNICAL SPECIFICATIONS

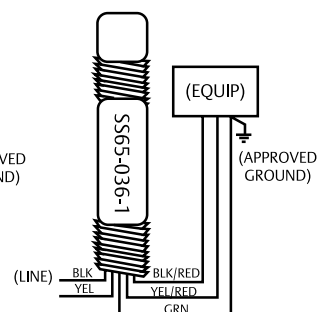
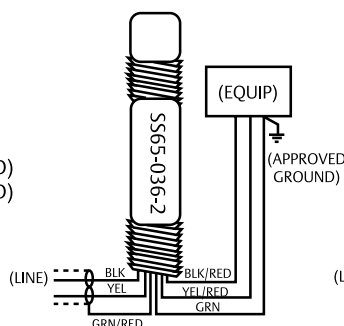
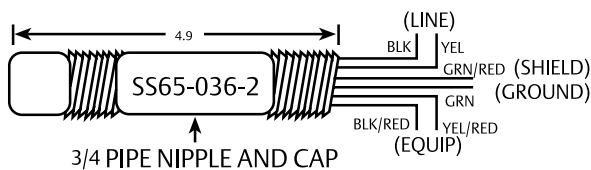
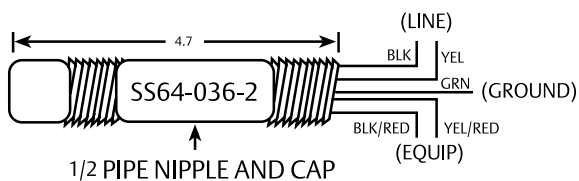
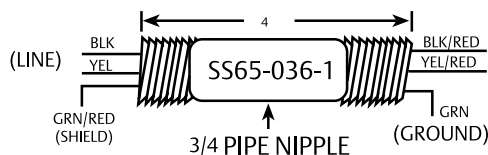
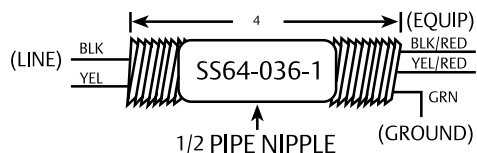
Response Time:	< 1 Nanosecond
Maximum Signal Voltage:	28 V Max
DC Clamping Level (L-G):	36 V ±10%
DC Clamping Level (L-L):	72 V ±10%
Peak Surge Current:	10 kA (8x20 µs)
<b>Maximum let-thru Voltage:</b>	
Line-to-Ground (10x700 µs)	44V @ 400 A
<b>Maximum let-thru Voltage:</b>	
Line-to-Line (10x700 µs)	90 V @ 400 A
Series Resistance (per conductor)	5V (typical)
<b>Capacitance:</b>	
(Zero Volts Bias)	(L-L) 600 pf typical (L-G) 1200 pf typical
Number of Occurrences:	400 @ 500 Amps (10x1000 µs)

**Caution:** The hybrid design of this product includes series resistance. Do not place this product in service on any signal lines capable of supplying more than 150 milliamperes continuously.

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### TYPICAL APPLICATIONS



### PART NUMBERS

**ACT SS64-036-10-01** Dual line 10kA surge data protector in 1/2" pipe end to end

**ACT SS64-036-10-02** Dual line 10kA surge data protector in 1/2" pipe Capped end

**ACT SS65-036-10-01** Dual line with Ground 10kA surge data protector in 3/4" pipe leded end to end

**ACT SS65-036-10-02** Dual line with Ground 10kA surge data protector in 3/4" pipe capped leded end