

# Coaxial Surge Protectors (SPD's)

Part Number: **CX-E-ECS** "Coax Guard Series"



**Features:**

- High reliability protection from surges caused by lightning or other electrical transients
- Meets IEC 61643-21 compliance, Category C2 & D1 Impulse Requirements
- High energy / low capacitance GDT technology
- High durability and RoHS compliant
- High frequency and low insertion loss
- Variable grounding configurations allowing for use in numerous applications
- DIN rail (35mm) mountable



**100% Lead-Free (RoHS Compliant)**

Electrical Characteristics	
Frequency Range	DC - 30MHz
DC Breakdown (Turn-On)	< 260V (conductor to ground - 100V/s), < 75V (between conductors - 1mA)
Impulse Breakdown (1.2/50us 10kV)	< 500V (conductor to ground), < 250V (between conductors)
Technology Type	Gas Discharge Tube (GDT)
Insertion Loss	< 1.0dB
Rated Current and DC Resistance	1A and 1Ω ±20% (between LINE and EQUIP)
AC Durability	50Hz, 0.5A, 1 second (5 times)
Maximum Continuous Operating Voltage	DC 58V (between conductors) (1A rated current)
Maximum Current - Category C2 (8/20 us)	10kA (10 times)
Maximum Current - Category D1 (10/350 us)	5kA (2 times)
Impedance	50 Ω / 75 Ω
Insulation Resistance (at 100V <sub>DC</sub> )	≥ 100M Ω (between conductors), ≥ 58M Ω (at 58V <sub>DC</sub> , cond. to ground)

Mechanical Characteristics	
Connector Type	BNC Type (J-J)
Connection Method	Series (Not Bidirectional)
Grounding	Screw
Weight	125g (4.41oz)

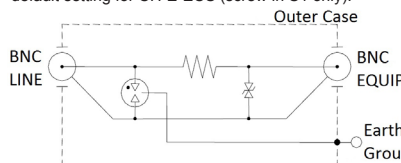
Environmental Characteristics	
Environmental Rating	IP20
Operating Temperature Range	-35°C to +60°C (-31°F to 140°F)
Maximum Operating Altitude	2000m (6562ft)
Relative Humidity	≤ 90%

**Applications:**

- Monitoring Cameras
- Security Systems
- Baseband Video
- Video / Data Transmission and Receiving
- High Frequency Coaxial Lines using BNC-type Connectors

**Grounding Configuration:**

On the underside of this part are two grounding configuration jumper screws (S1 and S2). CH-E-ECS, CH-H-ECS-1, and CH-H-ECS-2 are identical parts except for the factory default setting for the screws. This is the default setting for CH-E-ECS (screw in S1 only):



External view

