



Coaxial/Twinaxial Communication Line Protection

Introduction

The ECCP Series of data communication line surge protectors will ensure the reliable operation of coaxial or twinaxial based networked equipment running IBM 3270, AS400, Ethernet, Satellite/Cable/Closed Circuit TV and most other wideband, communication interfaces.

ECCPs Offer

- State-of-the-art, avalanche diode and thyristor technology
- Compact, in-line installation
- High speed, high energy handling capability
- Low shunt capacitance to reduce signal loss

You Receive

- Affordable, superior, equipment protection
- Improved reliability and maximized system up-time
- Protection at the interface card
- Adaptability to most industry applications

The ECCP Series devices guard sensitive data networks against lightning induced surges, AC power interference, electrostatic discharge and ground loop energies. Typical applications include: CCTV cameras, residential cable installations, terminals, file servers, repeaters, and mainframes using Ethernet and most other communication applications.

High speed avalanche diode technology is used in conjunction with low capacitance circuitry, enabling the protectors to function at a much greater bandwidth without causing signal degradation. This, in combination with their small size, makes the ECCP exceedingly versatile.

Standard units protect both center conductor(s) and shield circuits. A separate grounding wire on all units provides an isolated path to ground without adding an additional ground connection to the shield or network ground point.

ECCPs can also be specially configured to accommodate other standard connector interfaces (F, N, BNC, etc.). A wide selection of clamping voltages is available.

Installation

To install, insert the protector in series between the incoming communication line and the I/O port of the equipment to be protected. The protector ground wire must be connected to the metal chassis of the equipment being protected. Units should be installed at both ends of the data cable for the most effective protection.

Caution!

Ground wire **MUST** be grounded directly to the metal chassis of the equipment being protected. The equipment chassis **MUST** be connected to earth through a properly grounded AC power receptacle.

Warranty

Eaton Corporation offers a standard 5-year warranty for data communications surge protection. For more information, visit www.EatonElectrical.com.

Electrical Specifications

Specification	Standard Clamp Voltage	Peak Pulse Current (10/1000 us s.c. Waveform @Vcl) ①	Response Time	Maximum Shunt Capacitance	Series Resistance	Insertion Loss @40 MHz ②
Ethernet	7.5 Volts	132 Amps	< 5 Nanoseconds	<30 pF	None	-0.5 dB
CCTV	7.5 Volts	132 Amps	< 5 Nanoseconds	<30 pF	None	-0.5 dB
Cable/Satellite TV	90 Volts	20 kA	< 5 Nanoseconds	1 pF	None	<1 dB
AS400/3X Twinaxial	10 Volts	103 Amps	< 5 Nanoseconds	<30 pF	None	-0.5 dB

① 8/20 microseconds for ECCP-CMS.

② 1.5 GHz for ECCP-CMS.

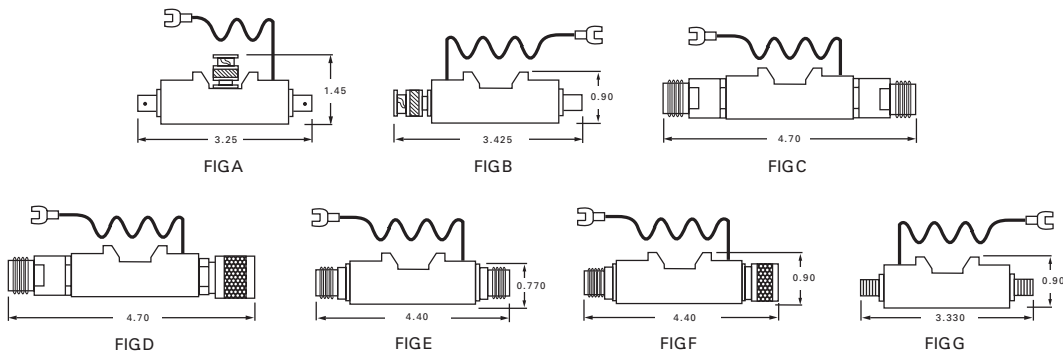
System Application and Catalog Number ③

Connector Type	Ethernet 10Base-2	Ethernet 10Base-5	CCTV	Cable/Satellite TV	AS400/3X Twinaxial
BNC TEE Configuration (Figure A)	ECCP-2DT (EN)	—	—	—	—
BNC Male/Female Straight (Figure B)	ECCP-2DA (EN)	—	—	—	—
BNC Male/Female Straight (Not Shown)	—	—	ECCP-CCTV	—	—
Twinaxial Female/Female (Figure C)	—	—	—	—	ECCP-2BM F/F
Twinaxial Male/Female (Figure D)	—	—	—	—	ECCP-2BM M/F
N Series Female/Female (Figure E)	—	ECCP-2DA N (EN) F/F	—	—	—
N Series Male/Female (Figure F)	—	ECCP-2DA N (EN) M/F	—	—	—
F Series Female/Female (Figure G)	—	—	—	ECCP-CMS F/F & M/F ④	—

③ See Ordering Guidelines below.

④ ECCP-CMS types are not UL listed.

Note: Special configurations available.



Note: All specifications and dimensions are subject to change without notice.

Ordering Guidelines

Note: Do not include any dashes, brackets or hyphens in the catalog numbers when ordering.

Example: ECCP-2DA N (EN) F/F =ECCP2DANENFF.

