



- ◆ Suitable for CATV systems using F connector coaxial cable.
- ◆ For frequencies between 5MHz and 860MHz.
- ◆ Suitable for power sources of up to 140V AC peak.

Application

Use to protect CATV consumer installations.

Features & benefits

- ✓ Restricts let-through voltage to below the damage levels of interface circuitry.
- ✓ Provides repeated protection in lightning intense environments.
- ✓ Low attenuation and high return loss over a wide range of frequencies ensures the protectors do not impair system performance.
- ✓ Carries AC or DC power.
- ✓ Substantial earth termination.
- ✓ Supplied ready for flat mounting.
- ✓ Strong metal housing.

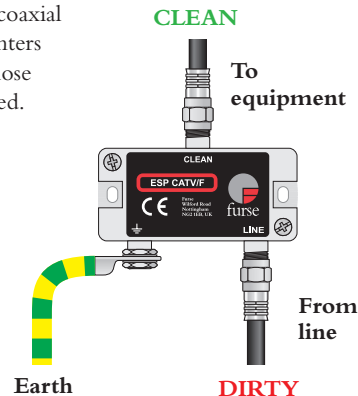


ESP CATV/F installed in a basement or garage near where the coaxial cable enters the building

For coaxial (or twisted pair) CCTV lines, use the CCTV/B or ESP CCTV/T. Protectors are available for coaxial RF lines. Transients can also be conducted into CATV systems via the mains power supplies. Many options for mains power protectors are available.

Installation

Connect in series with the coaxial cable either near where it enters or leaves each building or close to equipment being protected. This should be close to the system's earth star point (to enable a good connection to earth).



Electrical specification

	ESP CATV/F
Maximum working voltage	140V (DC or AC peak at 5µA)
Current rating (signal)	4A
Characteristic impedance	75Ω
Bandwidth	5 - 860MHz
Return loss over bandwidth	≥20dB
Insertion loss over bandwidth	≤0.5dB

Transient specification

	ESP CATV/F
Let-through voltage ¹	
5kV, 10/700µs test to:	250V
BS 6651:1999 Appendix C, Cat C-High	
ITU (formerly CCITT) IX K17	
Maximum surge current ²	3kA

¹ The maximum transient voltage let-through the protector throughout the test (±10%). Response time <10ns.
² Tested with 8/20µs waveshape to ITU (formerly CCITT), BS 6651:1999 Appendix C (>Cat C-Low).

Mechanical specification

	ESP CATV/F
Temperature range	-25°C to +70°C
Connection type	F female
Earth connection	~9.5mm (3/8") diameter earth stud
Weight - unit	0.14kg
- packaged	0.15kg
Dimensions	
M4 clearance holes	
Depth=23mm	