

Where CCTV installations have long cable runs to cameras and equipment, they act like massive antennae ready to be struck by lightning. By using a surge protector, high voltage spikes or surges can be taken down to ground, rather than through the CCTV equipment. There are five surge protectors in this range.



Surge Protector Range

CON750 Surge Protector BNC male – BNC female

CON751 Surge Protector F Plug male – F Socket female

CON752 Surge Protector RJ45 Jack – RJ45 Jack (2 pair protection)

CON753 Surge Protector Terminal Strip – Terminal Strip

CON754 Surge Protector Video BNC female & Data Terminal Strip - BNC female & Data Terminal Strip

Features

Protects equipment from high voltage surges from nearby lightning strikes

Maximum surge current 5000Amp – Insertion Loss <0.2dB

Two stage protection: under 100ns – 90v, over 100ns – 12v

Wide range of applications – CCTV system, television antenna, satellite receivers, FM receivers, video cameras, monitors, multiplexers, quad processors, video recorders, digital video recorders etc.

Selecting the right surge protector for use

Each surge protector is marked advising the correct way round for use. They are marked “Equipment End” and “Cable End”. Ensure that the green earth cable is connected to ground. Please see specification below in order to select the right surge protector for use. For long cable lengths where equipment is located at both ends of the cable e.g camera and monitor, it may be advisable to fit two surge protectors.

Specification

Surge Protector Type	CON750	CON751	CON752	CON753	CON754
Surge Protection Attack Time	100ns				
Maximum Surge Current	5000 Amps				
Surge Life	300 surges of 100 Amps				
Normal Resistance across Coax	10,000 MΩ				
Surge Resistance	Approx. 0Ω				
Power Passing Capability	DC 90V, AC 90Vp-p, 65 Vrms at 10 Amps				
Insertion Loss	Less than 0.2dB				
Return Loss (75 ohms)	16dB				
Connectors	BNC	F	RJ45	Terminal	Terminal & BNC
Dimensions in mm	78 x 25 x 25	78 x 25 x 25	85 x 25 x 25	65 x 25 x 25	87 x 67 x 27
Weight in grams	80	80	90	65	136

The CON752 surge protector will protect two pairs in a CAT5 cable (pairs 2 and 4) . See the diagram to the right showing the colour codes. Note that Pair 2 need not be audio, it could be a RS485 data connection.

CON752

Pair 2
Audio +

Pair 2
Audio -

Pair 4
Video +

Pair 4
Video -

PINS	STANDARD CAT5	CCTV CAT5
PIN 1	White / Orange	Black / Red
PIN 2	Solid Orange	Solid Red
PIN 3	White / Green	Black / Green
PIN 4	Solid Blue	Solid Blue
PIN 5	White / Blue	Black / Blue
PIN 6	Solid Green	Solid Green
PIN 7	White / Brown	Black / Yellow
PIN 8	Solid Brown	Solid Yellow

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