

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	<b>CON750</b>	<b>CON751</b>	<b>CON752</b>	<b>CON753</b>	<b>CON754</b>
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
<b>PIN 1</b>	White / Orange	Black / Red
<b>PIN 2</b>	Solid Orange	Solid Red
<b>PIN 3</b>	White / Green	Black / Green
<b>PIN 4</b>	Solid Blue	Solid Blue
<b>PIN 5</b>	White / Blue	Black / Blue
<b>PIN 6</b>	Solid Green	Solid Green
<b>PIN 7</b>	White / Brown	Black / Yellow
<b>PIN 8</b>	Solid Brown	Solid Yellow

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