



CAB705/706



CAB700/701

Easy Connection Cables For CCTV Cameras

A multi-purpose connection lead which makes connecting and a powering a CCTV camera easy.

Made from a quality composite video and audio cable with pre-fitted moulded connectors, installing this cable requires no special tools or soldering equipment. The video, audio and power are all carried through this one cable for simple easy installation.

Ideal for connecting a single CCTV camera to a suitable TV, DVD recorder or monitor.

Getting Started

The cable has two distinct ends. One is the camera end and one is the monitor/DVD recorder end. You can recognise the monitor end as this has a **D.C Power Socket** that allows the PSU to be plugged into it. The camera end of the cable has a **D.C Plug** that plugs into most 12V types of CCTV camera.

① Positioning your CCTV Camera

As with most CCD cameras, avoid directing the camera at any object or surface, which contains bright spots that may cause flare on the resulting camera picture. To reduce flaring, try to ensure that the camera is looking at a scene with uniform brightness and not a dark scene with just one well-lit area. Otherwise, the "electronic iris" will become confused and the camera will "average" the picture to a dark scene and show the bright spot as a flared image.

When trying to identify a person with a CCD camera, plan the installation so that the person you are trying to identify will walk directly towards the camera.

Features

- Very Easy To Use
- Works With Most CCTV Equipment
- Phono & 2.1mm DC connections
- Quality Cable In Black Or White
- Choice Of Cable Lengths

Specification

FUNCTION	SPECIFICATION
Camera Connections	Phono (Video + Audio) 2.1mm DC Plug
Monitor Connections	Phono (Video + Audio)

Options Available

PART CODE	DESCRIPTION
CAB700	10m Black Cable
CAB701	25m Black Cable
CAB705	10m White Cable
CAB706	25m White Cable

Other Products To Consider



2x Phono To BNC Converters
CON003



Switchable Phono To SCART Converter
VID015

The Expert's Advice...



"When choosing a PSU ensure it supplies at least 30% more power than your camera's maximum current consumption. Never use a PSU at its maximum capacity. It would be the same as driving a car at its top speed all the time without expecting something to give!"

All specifications are approximate. System Q Ltd reserves the right to change any product specifications or features without notice. Whilst every effort is made to ensure that these instructions are complete and accurate, System Q Ltd cannot be held responsible in any way for any losses, no matter how they arise, from errors or omissions in these instructions, or the performance or non-performance of the equipment that these instructions refer to.



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For more ideas on CCTV in the home see online tip 240 ▶▶▶

2 Running Out The Cable

Before you run out the cable make sure that you have correctly identified the camera and monitor ends to save wasting time and effort turning the cable around.

3 Connecting The Cable To The Camera

The **Yellow** Phono connection of the cable is for the Video signal. On some CCTV cameras the video output may be a Phono connector but on most it is a BNC type. If this is the case you would need a Phono/BNC converter (**CON003**).

If the camera has audio out, this will usually be a Phono connection. The **White** Phono connector is for the audio signal and needs to be connected to the camera's audio out.

The remaining connector is a 2.1mm D.C power plug and needs to be plugged into the camera's D.C power in. If screw terminals are provided for powering the camera, simply chop off the power plug and use the red core as +12V and the black as 0V. (**Do Not Do This With The Power On**)

4 Connecting The Cable To The Monitor

On the back of the monitor there may be one of the following types of connection: - Phono, BNC or SCART. The yellow Phono connector is for the video signal and the white Phono connector is for the audio signal. If you are connecting to Phono connections you can simply plug the cable straight into the monitor. When using a SCART connection you will require a **VID015** Phono to SCART converter. To connect to a BNC monitor you would need a Phono/BNC converter (**CON003**).

5 Powering The Camera

The cable is fitted with a moulded 2.1mm DC plug and socket for easy connection.

When selecting a PSU always leave at least 30% headroom on top of the cameras maximum current consumption. Also note that the cable does have a maximum rating of 1A @12V DC.

Once you are confident that the camera and monitor are connected correctly, you can plug in the PSU and power up the system.

On CCTV monitors, a picture should instantly appear when you power up the system. If a cloudy white picture appears with no detail or an out of focus picture, it is probably how the camera or lens has been set up and not the actual cabling that is at fault. To check this, simply remove the lens from the camera and place your hand over the front of the camera to see if the picture on the monitor screen darkens. If it does, then the cabling, connectors and power are OK but it is how the lens and camera have been set up that is wrong. To remedy this, refer to the camera and lens instructions.

You can of course connect the camera to a switcher or quad before the monitor as well as directly to a monitor. If you wish to do this, it is always recommended that you initially set up the camera **Only** to the monitor to prove that they are connected and set up correctly. Once you have proved they are working satisfactorily, you can proceed to installing the camera with any other equipment in your system such as a quad or switcher. If you fail to get a picture after you introduce other CCTV equipment such as a switcher, quad, multiplexer or DVD recorder, then go back to basics and connect the camera directly to the monitor to ensure you get a picture. You can then eliminate item by item in your full system to identify the cause of the problem.

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Phono & SCART Connections

To view the camera picture on a TV with a Phono or SCART input, you must first set the TV to the relevant 'AV' channel. Some TVs have an 'AV', 'INPUT' or 'SOURCE' button on the remote control handset to select the AV channel. If this is not the case refer to the TV's instructions for selecting the AV channel.

When intending to use the cable with a domestic TV and DVD recorder or VCR, you must always start by connecting the camera to the TV's input first. By doing this you can be sure that the camera and system is working before introducing another device such as a DVD recorder.

Connect A Camera To A DVD Recorder/VCR To Record And Play Back Through A TV

Connect your camera to the video input on the DVD recorder by a Phono or SCART input on the actual DVD Recorder. The DVD Recorder is then connected to the TV via the SCART output as normal. To record a picture simply press the 'RECORD' button on the DVD Recorder or remote control.

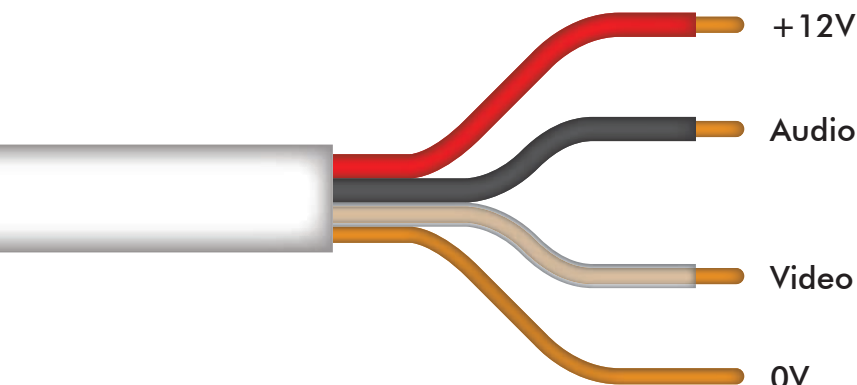
To watch the camera pictures live or a recording, the TV must be switched to AV channel that has been set up for the DVD Recorder. (For example whichever channel you would normally use to play a DVD, such as a film through the TV).

Cameras With Terminal Strip Connections

If you are connecting to a camera with a terminal strip connection then you will have to cut off the connectors from the camera end. Take great care not to cut off the wrong end by mistake!

If you cut off the individual connectors after the moulded joint you will find two cores in each of the three spurs. The black is always common and 0V. The red core relates to the connector that has just been chopped of it, i.e., if it was the yellow connector then the red core would be video out and the black would be ground, if it was the power plug that had been chopped off then the red would be +12V and the black would be ground.

If preferred, you could cut the cable prior to the moulded joint and there are just 4 possible connections available. **The Screen Is Now 0V** and common ground, Red is +12V, the clear-sheathed core is Video and the Black core is Audio. As per the diagram below;



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Trouble Shooting - Things To Check

If you fail to get a picture on your monitor, it is likely to be one of the following causes:

- ① **Camera Not Getting Power**
- ② **Incorrect Connection Of Cables And Connector**
- ③ **Monitor/TV Not Set Up Correctly. I.e., Not On The AV Channel On A Domestic TV/DVD Recorder**
- ④ **Camera And/Or Lens Not Functioning Or Set Up Correctly**

To remedy your problem, rule out each possible cause step by step.

For example, with a multimeter at the camera, you can make sure that the camera is getting power. Without power to the camera, there is no point in checking the monitor connections.

① Camera Not Getting Power

If the camera is not getting power then it could be any of the following causes:

- Check that your PSU is functioning correctly, using a multimeter set on DC volts (above 12V DC)
- If the PSU appears OK but there still is no picture on the monitor, ensure that the PSU is fitted with a 2.1mm plug and not a 2.5mm plug. If the PSU is fitted with a 2.5mm plug it will not make a good connection on the centre pin of the DC power socket fitted to the camera, even though it may feel a good fit when you push the plug into the socket.
- 2.1mm DC power socket pins are not open enough. It is possible that the power socket that is fitted to the camera needs to have the middle pin opened up slightly to ensure a better fit with the PSU that you are using. This can be done by inserting a small screwdriver between the "split-pin" of the DC power socket on the camera and gently widening the pin.

② Incorrect Connection Of Cables And Connector

Make sure that you have got the correct connectors to the correct inputs and outputs. Yellow connectors are for Video, White connectors are for audio.

③ Monitor/TV Not Set Up Correctly. I.e., Not On The AV Channel On A Domestic TV/DVD Recorder

On a TV or DVD recorder with a SCART connector you will not get a picture unless you switch the device to the AV channel. To do this, refer to the TV/DVD recorder's instructions.

④ Camera And/Or Lens Not Functioning Or Set Up Correctly

- Try reverting the camera to its default settings in-case it has been configured incorrectly.
- If the camera has a detachable lens, try removing and re-attaching the lens ensuring it is connected correctly.
- If you are using a Direct Drive (DC) or Video Drive lens make sure the auto iris plug is firmly connected to the camera. Check the auto iris plug and socket for any visible damage or frayed wires. If the camera doesn't have an auto iris socket then it is not compatible with Direct Drive or Video Drive lenses.

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