

Technical Support Bulletin

Products: CCTV Baluns
Subject: Frequently Asked Questions (FAQ)
Date: Revised Sept 12, 2010

1. Can more than one camera signal be transmitted under one 4-pair Cat 5 UTP cable?

Yes. Up to four (4) camera signals can be transmitted under a 4-pair Cat 5 UTP cable. Each camera signal uses one pair.

2. Can 25-pair and 50-pair bulk twisted pair cable be used to transmit multiple camera signals?

Yes. As long as the 25-pair and 50-pair cable meets Cat 5 specifications, it may be used to transmit up to 25 or 50 camera signals respectively.

3. Can CCTV camera power and audio be transmitted under the same UTP cable jacket as video?

Yes. On separate twisted pairs.

4. If 24VAC is passed under the same Cat 5 cable jacket as the video, will the video image be affected?

No. 24VAC will not affect the video picture quality if run on an adjacent pair of wires. Note that the 24VAC will be attenuated and may not operate the camera if the voltage is not high enough. Please verify with the camera manufacturer.

5. Can one 500000 Balun be used on one end with a 500009 Balun on the other end?

Yes. The two models are functionally identical.

6. Will the CCTV baluns work with other cable besides Cat 5?

Yes. The CCTV Baluns will work with lower grades of cable such as Cat 3 or Cat 2. Maximum distances will be less however than with Cat 5.

7. Where can I find an outside Cat 5 cable?

Mohawk/CDT sells several types of outside Cat 5 cable.

<http://www.mohawk-cdt.com/prod/lan-10.html>

8. Will the CCTV Balun work with twisted pair CCTV cameras and third party CCTV baluns?

Yes. However it may be necessary to reverse the wires to ensure straight-through signal polarity.

9. Does the CCTV Balun work with shielded twisted pair cable (STP)?

Yes. However due to the increased capacitance in the cable, 10% less distance may result. Furthermore, in order to prevent the shield from acting as an antenna and injecting noise into the signal, it is recommended to ground the shield at least on one end. There must be no floating segments of shield. Grounding the shield on both ends may cause a ground loop and therefore, grounding on one end is recommended.

For more information, please contact MuxLab Customer Technical Support at 1-877-689-0588.