

## Twisted pair transmitter (passive) suitable Sender or Receiver

Art. No. 13910 Model VC-BALUN-16/9 Version 16x Transmitter respectively Receiver in 19" housing Network Transmission

The Twisted will be supplied in a 19" metal housing with BNC-plugs and connection terminal for twisted pair transmission. The housing is suitable for indoor applications or installation in a 19" rack.



16x Twisted pair connection terminals cable

+ = a  
- = b } Cable

VDE CE EMC

16x BNC-connection  
(to camera or cabling  
connection)

All twisted pair communication cables are suitable. Several twisted pair lines can be applied in a multi pair communication cable, if the video signal from all lines within the cable will be transmitted in the same direction and in 4x twisted pair lines only 1 cable pair will be used for the video signal transmission. The unused communication cable pairs can be dedicated additionally to audio transmission or power supply. The twisted pair transmitter can be applied as sender or receiver. Each twisted pair cabling must be finished either with a sender or receiver. The max. distance depends on the state of the applied communication cable and the requested frequency response of the video signal. Larger distance is to be achieved with active twisted pair transmitters as mentioned in the subsequent table.

The Balun is designed to transmit video signals via existing twisted pair line

Max. distance (color 4 MHz / 320 TVL) 300mtrs

Max. distance (color 7 MHz / 560 TVL) 200mtrs

Max. distance (b/w 5 MHz / 400 TVL) 500mtrs

Max. distance (b/w 10 MHz / 800 TVL) 340mtrs

### Possible error source:

through the symmetric assembly is a inductive influence not available. Should you face different earth potential of the earth conductor at the camera or monitor, then you encounter ground loops. In such a case we can recommend our inductive earth potential separation. in order to abolish the signal distortion.

### Technical requirements for operation:

zero potential twisted pair of wires (communication cable)

### Technical Details

Passive twisted pair sender/receiver bandwidth/frequency response/frequency response operational voltage as Sender/ input impedance output impedance as receiver input impedance output impedance

no power consumption 0-10 MHz 0-3 dB-20 MHz -0,1 dB-50 MHz -2,0 dB not required e16x 1VPP at 75 Ohm BNC-plug 16x 1Vss symmetric at 124 Ohm/16x 2 clamps 16x 0,5V-1VPP symmetric at 124 Ohm/16x 2 clamps 16x 0,5V-1VPP at 75 Ohm/BNC-plug

Dimension :Length= 190 mm Width= 484 mm Height= 45 mm/connection Camera/Monitor/BNC-plug connection for telephone cable 12 pin clamps special tools not requested Layout 19" Metal housing 1HE(cable)