

COUPLER FOR VIDEO TRANSFORMERS WITH POWER LTR-4/70

LTR-4/70 is designed for video signals transmission and power supplying from four video transformers TR-1P/70 or TR-1M/70 via twisted-pair cable (UTP, FTP). Video signal from TR-1M/70, TR-1P/70 transformers is sent to LTR-4/70 coupler over one pair of a twisted-pair cable, the remaining three pairs are used for supplying 12V DC power, which coming from an external adapter connected to the coupler. Then four video signals is sent to the TR-4P video transformer over four pairs of a twisted-pair cable. The device has the LED that indicates proper power connection. Before use the device in CCTV system it's necessary to check the indicator is light on. Maximum distance for video signal transmission via twisted-pair cable is up to 400 meters. The transmission for the longer distance requires video amplifier using (e.g. VCA-1/2000).

Maximum distances for power sending from LTR-4/70 coupler to TR-1P/70, TR-1M/70 video transformers are following:

- 70 meters - camera without thermostat
- 23 meters - camera with thermostat (250mA camera + 500mA thermostat: TT-12E)

The table below shows distances allowed for equipment with different power consumption.

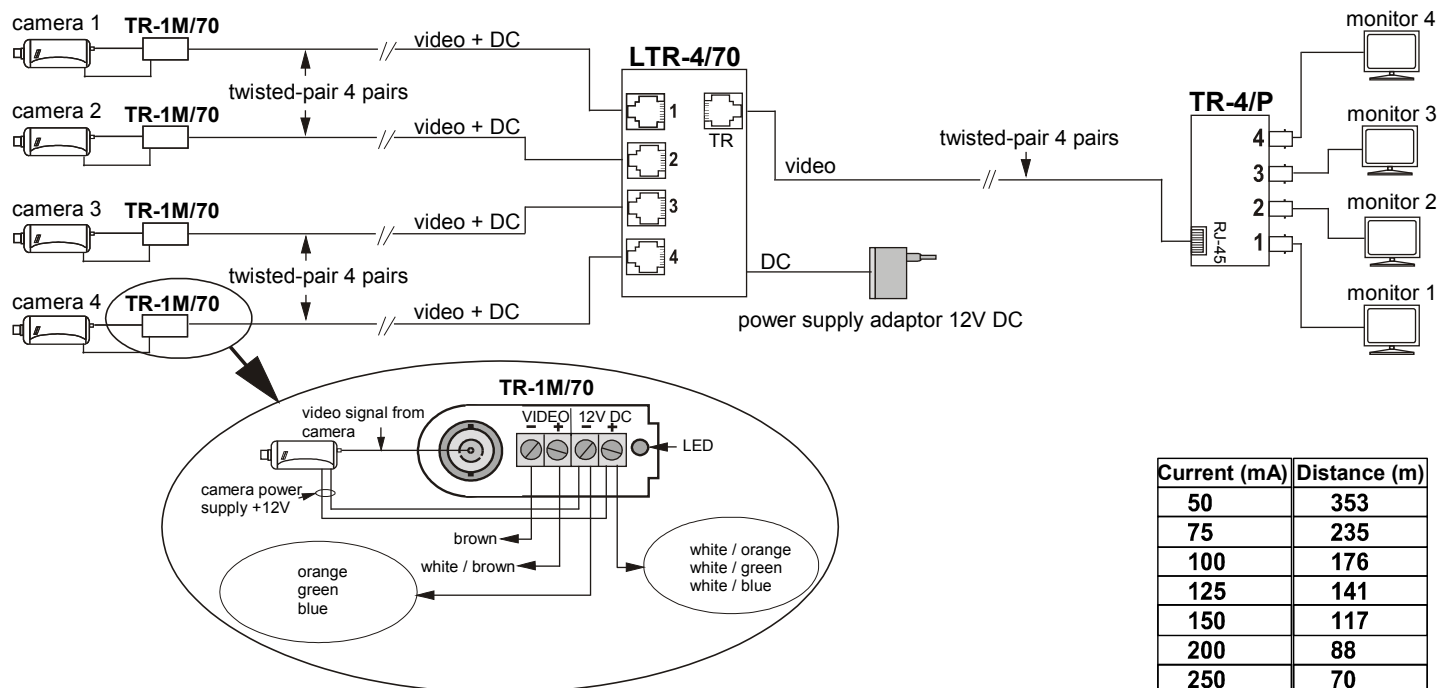
The calculations have been done for power transmission via a 0.5mm cat.5 twisted pair (24AWG).

For all applications wiring sequence inside the RJ-45 plug is according to T568B norm.

SPECIFICATIONS

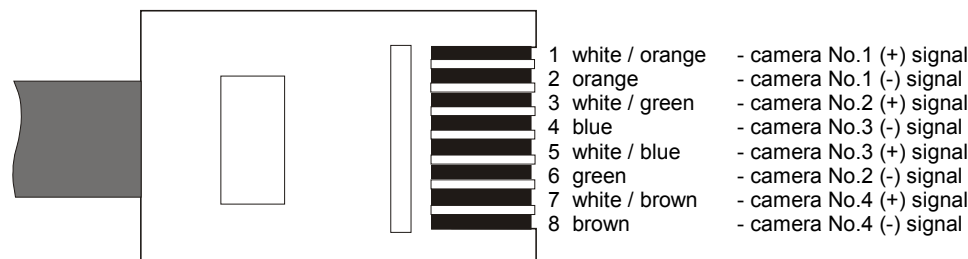
Twisted-pair cable socket type	5 x RJ-45 (8-pins, 4 pairs)
Power socket type	DC 5,5/2,1mm
Power voltage	12V DC
Working temperature / relative humidity	-50...+55°C / <95%
Dimensions (W x L x H) / weight	120 x 55 x 30mm / 85g

Schematic diagram:



Current (mA)	Distance (m)
50	353
75	235
100	176
125	141
150	117
200	88
250	70
300	58
350	50
400	44
450	39
500	35
600	29
700	25
800	22
900	19
1000	17

Twisted-pair wiring sequence between TR-4P transformer and LTR-4P/70 coupler:



Twisted-pair wiring sequence between TR-1M/70 transformer and LTR-4P/70 coupler:

