

TPT-4000



VIDEO TWISTED PAIR REPEATER TAP

The TPT-4000 Twisted Pair Tap Repeater is used to amplify and equalize video from a camera over twisted pair wire gages 18 to 24 AWG. The unit has one twisted wire video input, a BNC Tap or drop to use for a local monitor and two twisted pair video outputs (a splitter) so that the unit can drive two separate video lines with the same camera picture. This unit is used in the middle of a long twisted pair wire installation to extend the transmission range of the video signal From 0 - 4000 feet.

This unit is compatible with other twisted pair sender and receiver units. When used with the (TPS-2000) Sender and a (GB60-UTP) receiver, the range of a twisted pair signal can be extended up to 8000 feet. The distance is set using field programmable internal jumpers and variable equalization controls.

The video input has a screw terminal connector for the twisted pair wire. The video drop has a female BNC connector for use with a monitor or recording equipment. Two screw terminal connectors are used for the dual twisted pair video output.

The video input uses a true common-mode rejection system that eliminates interfering signals and ground-loop problems. Controls for both Video Level and Picture Definition can be adjusted to correct for twisted pair wire loss making the video output (BNC Drop) correct.

The TPT-4000 "Pre-Equalizes" the twisted pair transmission path to reduce video noise and improve the video image. Because it is an active device it will correct the twisted pair wire impedance of the incoming video signal and produce a precise 105 Ohm impedance to correctly match the twisted pair wire and it has the power to drive both video signals without introducing loss. A correct match on the twisted pair wire will prevent reflections and ghosting in the video picture.

The unit also has two separate outputs of the same signal so that you can split the video signal into two different twisted pair wires to send to other locations.

The unit has a power-on L.E.D. We supply a 24 VDC power cube with each unit.

The unit is mounted in a bone white ABS enclosure that measures 3.3" Wide, 5.5" Long, 2.0" Deep. It has two mounting holes, one on each side that will hold it securely to any surface. All cable and wire mounting connectors are easily accessible on the front cover. The Jumpers for distance are set by removing four screws on the front cover and selecting the distance on the PC board.

INPUT	SPECIFICATION
Level	1 Volt Peak/Peak Nominal
Impedance	105 Ohms
Video Standard	CCTV, NTSC, PAL
Common Mode Rejection	40 dB
Connectors	Screw Terminal
Equalization Distance	0-2000 feet (twisted pair)

PROCESSING	
Input Distance (Adjustable)	0 - 2000 feet
RF Bandwidth	5 MHz Flat

DROP (TAP) OUTPUT	
Level	1 Volt Peak/Peak
Impedance	75 Ohm
Connector	BNC (Female)
Signal to Noise Ratio	70 dB

OUTPUT	
Level	1 Volt Peak/Peak
Impedance	105 Ohm
Connector	Screw Terminal
Equalization Distance	0-2000 feet
Signal to Noise Ratio	70 dB
Total Equalization Distance	0-4000 feet (In-Out)

MECHANICAL	
Size	5.5" L x 3.3"W x 2"D
Enclosure	ABS with Mounting Flange
Power Requirements	24 DC Wall Mount (Supplied)