



# VD-UTP

## UTP TRANSMISSION KIT TO TRANSMIT VIDEO SIGNALS OVER UNSHIELDED TWISTED PAIR CABLES

### KEY FEATURES

- Field installable
- Terminal block for twisted pair connection

Field upgradable UTP kit for VDP20W/GCDHNNH series camera combos. Does not work with the Seawolf and 600 line versions.



### GENERAL SPECIFICATIONS

Video Output (UTP Terminal)	2.0Vpp, 100 ohm balanced
Wire Type	Unshielded twisted pair cable (24awg min)
Catagory Type	2 or better
Impedence	100 Ohms /- 20%
DC Loop Resistance	52 Ohms/1000Ft
Differential Capacitance	18pF/Ft
Transmission Distance	Up to 750ft (229 Meters) with Passive Receiver Up to 3,000Ft (914 Meters) with Active Receiver



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## UTP TECH NOTES

To verify you have the correct equipment in place based on wire distance a quick check is to measure the loop resistance on the wire. Short one end of the cable and measure the loop resistance at the other end to determine the wire length.

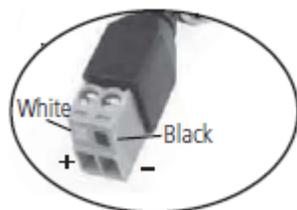
Use point-to-point Unshielded Twisted Pair (UTP) wire, 24-16AWG (0,5-1,31mm), stranded or solid, Category 2, or better.

### Loop Resistance Unshielded Twisted Pair

FEET	18AWG	20AWG	22AWG	24AWG
100	1	2	3	5
200	3	4	6	10
300	4	6	10	15
400	5	8	13	21
500	6	10	16	25
600	8	12	19	31
700	9	14	23	36
800	10	16	26	41
900	11	18	29	46
1000	13	20	32	51

Problem: No video or wide white jagged area

Solution/Cause: Reverse wires on twisted pair connection. Each transceiver has a + & - terminal.



Due to near-end crosstalk, don't send a transmit and a receive signal in the same wire bundle. Exceptions: Less than 1,000 ft (300m), or Category 5 or better cable, up to 2,000 ft (600m) are OK.

The UTP cable must be installed with no bridge-taps, loading coils, talk-battery, or MOV type protectors. High bandwidth signals will not pass through a telephone switching system; however multiple punch-blocks are OK.