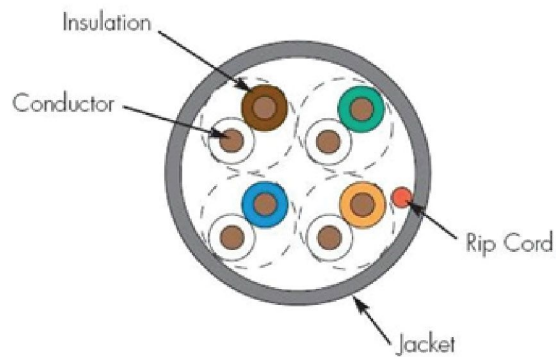


# DTC CABLE UTP CAT 5E SOLID



## DESCRIPTION

- Standardization : UL Subject 444, EIA/TIA 568C.2 & ISO/IEC 11801, IEC 61156
- Conductor : Solid bare copper
- Colour : Coded PE insulation
- Jacket : PVC or LSZH
- Packaging : Reel in box
- Rated Temperature : 70°C

## STRUCTURE

- Construction : Unshielded Twisted Pair ( UTP )
- Number of Pairs : 4 pairs
- AWG : 24 AWG
- Conductor Dimension : 0.510 mm

## ISULATION

- Insulation Material : HDPE
- Insulation Dimension : 0.88 mm
- Number Colour : - White blue / blue  
- White orange / orange  
- White green / green  
- White brown / brown
- ( Ring / Strip Marking )
- Cross Filler : No

## SHIELD

- Individual & Material : No
- Outer Shield & Material : No
- Drain Wire : No

## OUTER JACKET

- Material : PVC
- Outer Diameter :  $5.0 \pm 0,2$  mm

## ELECTRICAL CHARACTERISTICS

- Mutual Capacitance @kHz :  $\leq 5.6$  nF / 100 m
- Max. Capacitance :  $\leq 330$  pF / 100 m ( TIA/EIA-568C.2 )
- Velocity Propagation : 65 %
- Delay Skew : 45 ns / 100 m
- Conductor DC @ 20°C :  $7.32 \Omega$  / 100 m ( 24 AWG )
- DC Resistance :  $\leq 5\%$
- Operating Temperature : -20°C to 70°C
- Pulling Tension : 115 Newton
- Bend Radius : 4 x outer diameter
- Flame Test : CM / CMX
- Maximum Pulling Tension : 110 Newton

## APPLICATION

- 100 Base-T4
- 100 Base-TX
- 100 VG-AnyLAN
- 1000 Base-T
- 1000 Base-TX
- Gigabyte Ethernet

## TIA/EIA 586C.2 ELECTRICAL CHARACTERISTIC

Frequency	Impedance	ATT	RL	NEXT	PSNEXT	ELFEXT	PSELFEXT	PD
MHz	Ohm	dB / 100m	dB	dB	dB	dB / 100m	dB / 100m	dB / 100m
1	100±15	2.0	20	65.3	63.8	63.8	60.8	570
8	100±15	5.8	24.5	51.8	45.7	45.7	42.7	546.7
10	100±15	6.5	25	50.3	42.8	42.8	40.8	545.4
16	100±15	8.2	25	47.2	39.7	39.7	36.7	543
20	100±15	9.3	25	45.8	37.8	37.8	34.8	542
25	100±15	10.4	24.3	44.3	35.8	35.8	32.8	541.2
31	100±15	11.7	23.6	42.9	39.9	33.9	30.9	540
62.5	100±15	17	21.5	38.4	35.4	27.9	24.9	538.6
100	100±15	22	20.1	35.3	32.3	23.8	20.8	537.6