

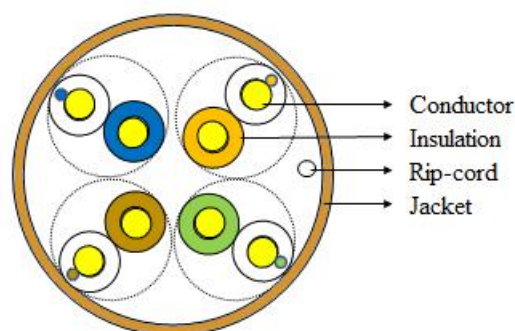
# Product Specifications

## UTP CAT5E



### Standard

- ANSI/TIA-568.C
- ISO 11801 2<sup>nd</sup>
- IEC 61156-5
- ROHS 2011/65/EU



### Application

- Specialized for structured cabling, language transmission, data signal spreading, and it can be appropriate for the network connection between the wireless device terminal like computer, TV, router, TV set-top box and other equipment.
- Apply to the current high bandwidth applications and intelligent solutions.

### Specification

- Inner Conductor BC 24AWG
- Insulation PE
- Rip Cord Nylon Material
- Outer Sheath PVC/LSZH/PE

### Mechanical Property

- Insulation Tensile Strength:  $\geq 16\text{MPa}$
- Elongation At Break Of Insulation:  $\geq 300\%$
- Aging Time And Temperature:  $100^{\circ}\text{C} * 168\text{h}$
- Sheath Tensile Strength:  $\geq 10\text{MPa}$
- Sheath Elongation At Break:  $\geq 125\%$
- Sheath Tensile Strength After Aging:  $\geq 8\text{MPa}$

### Electrical Performance(20 °C)

- Impedance: 1-100MHZ  $100 \pm 15$  (Ohms )
- DC Resistance: 9.8(Ohms/100m)
- Dielectric Strength: DC 2500V 2S
- Rated Temperature:  $75^{\circ}\text{C}$
- Insulation Resistance:  $> 5000\text{M}\Omega * \text{KM}$
- Pair-to-Ground Capacitance Unbalance:  $330(\text{pF}/100\text{M})$

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## Electrical Characteristics (HF) At 20 °C

Frequency (100m)	RL	IL	DOP	Delay Skew	Next	PSNEXT	ACR-F	PS ACR-F
(MHz)	(dB)	(dB)	(ns)	(ns)	(dB)	(dB)	(dB)	(dB)
1	20.0	2.2	570	45	65	62	61	61
4	23.0	4.2	552	45	56	53	48	48
10	25.0	6.5	545	45	50	47	41	41
16	25.0	8.4	543	45	47	44	36	36
20	25.0	9.3	542	45	45	42	34	34
31.25	23.6	11.6	540	45	42	39	31	31
62.5	21.5	17.0	538	45	38	35	25	25
100	20.1	22.0	537	45	35	32	21	21

Note: The above transmission performance for the 100M, 20±2°C under the conditions tested.

### Thermal Characteristics

- For fixed installation: -20°C up to +60°C
- For mobile installation: 0°C up to +50°C

### Colour Code

- Wh/bu; wh/or; wh/gn; wh/bn