

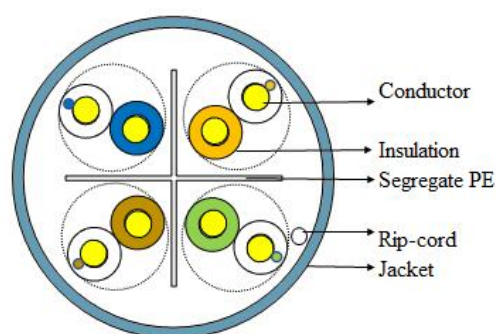
Product Specifications

UTP CAT6



Standard

- ANSI/TIA-568.C
- ISO 11801 2nd
- 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 23AWG
- Insulation PE
- Cross 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 ± 15 (Ohms)
- DC Resistance: 7.9(Ohms/100m)
- Dielectric Strength: DC 2500V 2S
- Rated Temperature: 75°C
- Insulation Resistance: $> 5000\text{M}\Omega * \text{KM}$
- Pair-to-Ground Capacitance Unbalance: 330(pF/100M)

Product Specifications

Electrical Characteristics (HF) At 20 °C

Frequency (100m) (MHz)	RL (dB)	IL (dB)	DOP (ns)	Delay Skew (ns)	Next (dB)	PSNEXT (dB)	ACR-F (dB)	PS ACR-F (dB)
1	20.0	2.0	570	45	74.3	72.3	67.8	64.8
4	23.0	3.8	552	45	65.3	63.3	55.7	52.8
10	25.0	6.0	545	45	59.3	57.3	47.8	44.8
16	25.0	7.6	543	45	56.2	54.2	43.7	40.7
20	25.0	8.5	542	45	55	53	41.8	38.8
31.25	23.5	10.7	540	45	52	50	37.9	34.9
62.5	21.5	15.4	538	45	47.4	45.4	31.9	28.9
100	20.0	19.8	537	45	44.3	42.3	27.8	24.8

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