

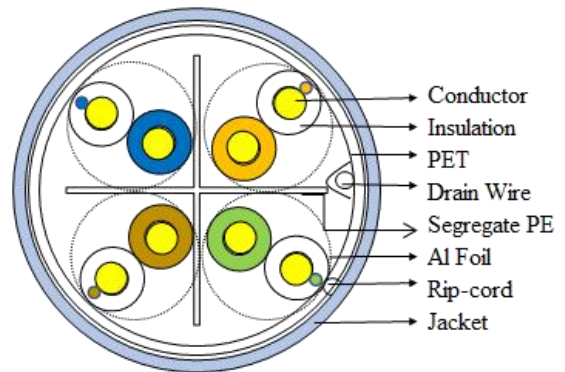
# Product Specifications

## U/FTP CAT6A



### Standard

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



### Application

- Widely used in indoor level working area wiring, security monitoring, intelligent application, home, office network and other indoor LAN wiring engineering
- Suitable for any 1G / 10GBase-T Ethernet
- Connect the switch, router, computers, IP camera, Xbox, Apple TV, etc

### Specification

- |                   |                |       |
|-------------------|----------------|-------|
| ■ Inner Conductor | BC             | 23AWG |
| ■ Insulation      | PE             |       |
| ■ Cross           | PE             |       |
| ■ PET             | YES            |       |
| ■ Drain Wire      | TA             |       |
| ■ Shield          | AL Foil        |       |
| ■ Rip Cord        | Nylon Material |       |
| ■ Outer Sheath    | PVC/ LSZH/ PE  |       |

### Mechanical Property

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

### Electrical performance(20°C)

- |  |   |
|--|---|
| ■ Impedance: 1-250MHZ $100 \pm 15$ (Ohms )           | ■ Rated Temperature: $75^{\circ}\text{C}$ .                 |
| ■ DC Resistance 20°C: 7.9(Ohms/100m)                 | ■ Insulation Resistance: $> 5000\text{M}\Omega * \text{KM}$ |
| ■ Dielectric strength: DC 2500V 2S                   | ■ DC Resistance balance : $< 2.5\%$ .                       |
| ■ Pair-to-Ground Capacitance Unbalance: 330(pF/100M) |   |



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## Electrical characteristics(HF)at 20 °C

Frequency (MH)z	Attenuation (dB)	Return Loss (dB)	NEXT (dB)	PSNEXT (dB)	ELFEXT (dB)	PSELFEXT (dB)	DelaySkew (ns/100m)
1	2.1	20	74.3	72.3	67.8	64.8	570
4	3.8	23	65.3	63.3	55.8	52.8	552
10	5.9	25	59.3	57.3	47.8	44.8	545
16	7.5	25	56.3	54.2	43.7	40.7	543
20	8.4	25	54.8	52.8	41.8	38.8	542
25	9.4	24.3	53.3	51.3	39.8	36.8	541
31.25	10.5	23.6	51.9	49.9	37.9	34.9	540
62.5	15	21.5	47.4	45.4	31.9	28.9	539
100	19.1	20.1	44.3	42.3	27.8	24.8	538
125	21.5	19.4	42.8	40.8	25.9	22.9	537
200	27.6	18	39.8	37.8	21.8	18.8	537
300	34.3	16.8	37.1	35.1	18.3	15.3	536
400	40.1	15.9	35.3	33.3	15.8	12.8	536
500	45.3	15.2	33.8	31.8	13.8	10.8	536

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