

# Product Specifications

## S/FTP CAT7



### 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             |       |
| ■ Weave           | TA             |       |
| ■ 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: $100^{\circ}\text{C} \times 168\text{h}$ | ■ 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: 7.8(Ohms/100m)                 | ■ Insulation Resistance: $> 5000\text{M}\Omega \cdot \text{KM}$ |
| ■ Dielectric strength: DC 2500V 2S                   | ■ DC Resistance balance : $< 2.5\%$ .                           |
| ■ Pair-to-Ground Capacitance Unbalance: 330(pF/100M) |   |



# Product Specifications

## 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)
4	3.74	23	78	75	78	75	552
8	5.24	24.5	78	75	75.9	72.9	546.7
10	5.86	25	78	75	74	71	545.3
16	7.41	25	78	75	69.9	66.9	542
20	8.29	25	78	75	68	65	541.8
25	9.29	24.3	78	75	66	63	541.2
31.25	10.41	23.6	78	75	64.1	61.1	540.2
62.5	14.88	21.5	75.5	72	58.1	55.1	538.6
100	19.02	20.1	72.4	69.4	54	52	537.6
150	23.58	18.9	69.8	66.8	50.2	47.3	536.9
200	27.47	18	67.9	64.9	48	45	536.5
250	30.97	17.3	66.4	63.4	46	43.2	536.3
300	34.19	17.3	65.2	62.2	44.5	41.4	536.1
600	50.10	17.3	60.7	57.7	38.4	35.4	535.5

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