

CAT6A Shielded FTP Cable

23AWG · 4 Twisted Pairs · Solid Copper · U/FTP · 500 MHz · 10Gbps up to 100m tested & certified



Key Features:

- ✓ Bandwidth tested up to 500MHz
- ✓ Suitable for gigabit speeds –10Gbps up to 100m
- ✓ Rohs/REACH complied PVC Jacket
- ✓ In compliance with ANSI/TIA 568.2-D
- ✓ Supports PoE and PoE+ and PoE++ (IEEE 802.3af/at/bt) upto 60W and 300V DC
- ✓ Installation temperature: -30°C - +50°C

Technical Data:

Category	U/FTP CAT6A														
Test Standard	ISO/IEC 11801, TIA-568														
Conductor	Material	Solid Bare copper	<table border="1"> <tr> <td rowspan="4">Sheath Physical Properties</td> <td>Elongation: Min 100%</td> </tr> <tr> <td>Tensile Strength: Min. 1.407 Kg/mm²</td> </tr> <tr> <td>After Aging: Min. elongation retention 50%</td> </tr> <tr> <td>After Aging: Min. tensile strength retention 75%</td> </tr> <tr> <td rowspan="6">Electrical Characteristics (20 °C)</td> <td>1.0 – 500.0MHz: Impedance (Ω) 100 ± 15</td> </tr> <tr> <td>1.0 – 500.0MHz: Delay Skew (ns/100m) ≤ 45</td> </tr> <tr> <td>NVP: 69%</td> </tr> <tr> <td>Capacitance (nF/100m) max: 5.6</td> </tr> <tr> <td>DC Resistance (Ω/100m) max: 9.38</td> </tr> <tr> <td>DC Conductor Resistance Unbalance (%) max: 5.0</td> </tr> </table>	Sheath Physical Properties	Elongation: Min 100%	Tensile Strength: Min. 1.407 Kg/mm ²	After Aging: Min. elongation retention 50%	After Aging: Min. tensile strength retention 75%	Electrical Characteristics (20 °C)	1.0 – 500.0MHz: Impedance (Ω) 100 ± 15	1.0 – 500.0MHz: Delay Skew (ns/100m) ≤ 45	NVP: 69%	Capacitance (nF/100m) max: 5.6	DC Resistance (Ω/100m) max: 9.38	DC Conductor Resistance Unbalance (%) max: 5.0
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Insulation	Material	HDPE													
	Diameter	1.35 ± 0.05 mm													
Sheath	Thickness	0.55 ± 0.05 mm													
	External O.D.	7.4 ± 0.5 mm													
	Surface	Clean, Frap, Satiation													
	Material	PVC													
Surface Printing	Color	Green													
	Letter height	3.0 ± 0.3 mm													
	Print Error & Space	≤ ±0.5%.1 mm													
Core Color	1 White /Blue	2 White /Orange													
	3 White /Green	4 White /Brown													
Packing	Reel														
Reel Dimension															
Packing Lenght	(500 ± 1.5)m														
Rip Cord	Yes														
Drain Wire	0.45mmTC														

Technical Performance (100m):

Frequency (MHz)	Return Loss ≥dB	Attenuation ≤dB/100m	NEXT ≥dB	Phase Delay ≤ns
1	20.0	2.1	74.3	570.00
4	23.0	3.8	65.3	552.00
8	24.5	5.3	60.8	546.70
16	25.0	7.5	56.2	543.00
20	25.0	8.4	54.8	542.00
62.5	21.5	15.0	47.4	538.60
100	20.1	19.1	44.3	537.60
200	18.0	27.6	39.8	536.50
250	17.3	31.1	38.3	536.30
300	16.8	34.3	37.1	536.10
500	15.2	45.3	33.8	535.60

Frequency (MHz)	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1	72.3	67.8	64.8
4	63.3	55.8	52.8
8	58.8	49.7	46.7
16	54.2	43.7	40.7
20	52.8	41.8	38.8
62.5	45.4	31.9	28.9
100	42.3	27.8	24.8
200	37.8	21.8	18.8
250	36.3	19.8	16.8
300	35.1	18.3	15.3
500	31.8	13.8	10.8

