

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" style="width: 100%;"> <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 /Blue	2 White-Orange /Orange													
	3 White-Green /Green	4 White-Brown /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 \geq dB	Attenuation \leq dB/100m	NEXT \geq dB	Phase Delay \leq 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 \geq dB	ELFEXT \geq dB	PSELFEXT \geq 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

