

CAT-6A UTP Cable

Application

Network and voice application in a standard cabling system, including IEEE802.3an 10G Base-T Gigabit Ethernet, 2.4/1.2Gb/s ATM, digital video, broadband & baseband analog video

Features

- ▶ Ideal solution for 10 Gigabit Ethernet
- ▶ Special designed filler to provide EMI protection
- ▶ Provides positive PSACR beyond 500MHz for higher available bandwidth
- ▶ Every master reel is tested to ensure electrical performance compliance
- ▶ RoHS compliant

Physical Specifications

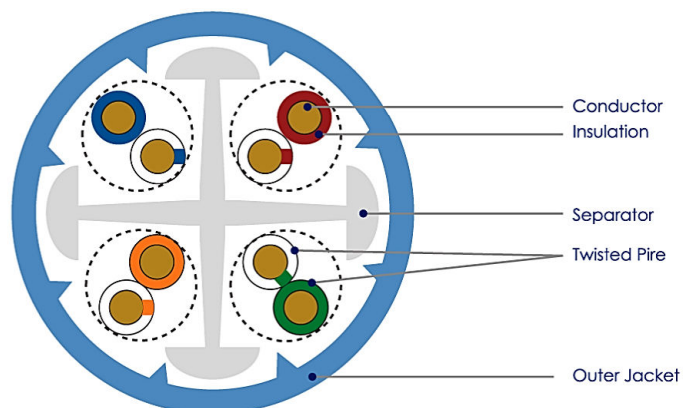
Conductor Size & Material Type	23 AWG Solid Bare Copper
Insulation Material Type Thickness	PE 0.21 mm
No. of Pair / Coverage Type	4 / UTP
Cable Jacket Type Thickness	PVC / LSZH 0.45 mm
Cable Colour Dimension	Aqua/Blue/Gray 8.3 mm



CAT-6A UTP CABLE

Pair Identification

Pair 1	Blue/White-Blue
Pair 2	Orange/White-Orange
Pair 3	Green/White-Green
Pair 4	Brown/White-Brown



Temperature Range

During Installation	-10°C up to +60°C
During Operating	-10°C up to +60°C

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Electrical Specifications	
Capacitance unbalance (max.) @ 0.8 or 1 kHz (pF/km)	1600
DC Resistance (max.) Ω /km @ 20°C	95
Resistance unbalance within a pair (max.) (%)	2
Resistance unbalance between pairs (max.) (%)	4
Delay Skew (max.) ns/100m @ 20°C	45
Mean Input impedance @ 100 MHz	100 \pm 5 Ω
Dielectric strength	Min 1.0 kVdc or 0.7 kVac for 1 min. Min 2.5 kVdc or 1.7 kVac for 2 secs.

IEC 61156-5 ed2.0 Category 6A cable parameters							
Freq. MHz	Ins. Loss (dB/100m)	RL (dB)	Pair to Pair		Power Sum		Po. Delay (ns/100)
			NEXT	ELFEXT	NEXT	ELFEXT	
			(dB/100m)		(dB/100m)		
	Max.	Min.	Min.	Min.	Min.	Min.	Max.
10	5.9	25.0	60.3	48.0	57.3	45.0	545.4
16	7.5	25.0	57.2	43.9	54.2	40.9	543.0
20	8.4	25.0	55.8	42.0	52.8	39.0	542.0
31.25	10.5	23.6	52.9	38.1	49.9	35.1	540.4
62.5	15	21.5	48.4	32.1	45.4	29.1	538.6
100	19.1	20.1	45.3	28.0	42.3	25.0	537.6
200	27.6	18.0	40.8	22.0	37.8	19.0	536.5
250	31.1	17.3	39.3	20.0	36.3	17.0	536.3
300	34.3	17.3	38.1	18.5	35.1	15.5	536.1
350	40.1	17.3	36.3	16.0	33.3	13.0	535.8
500	45.3	17.3	34.8	14.0	31.8	11.0	535.6

Standard Compliances

- ISO/IEC 11801:2011 (Ed. 2.2)
- EN 50173-1:2011
- EN 50288-3-1:2013
- IEC 61156-5:2012 (Ed. 2.1)
- EN 50173-2:2007
- ANSI/TIA-568-C.2:2009

Certification

- Delta EC

Order Information

Part No	No. of Pairs	Type of Cable	Size of Conductor	Overall Dia. mm	Type of Jacket	Standard Length
CS-C6AU4	4	UTP	23AWG	8.3	PVC	305M/Box - 500M/Reel
CS-C6AU4	4	UTP	23AWG	8.3	LSZH	305M/Box - 500M/Reel