

CAT-6A U-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

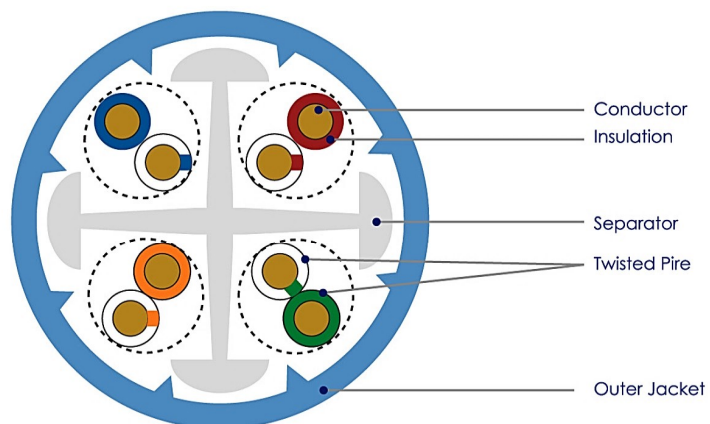
- ▶ Ideal solution for 10 Gigabit Ethernet
- ▶ Special designed filler to provide EMI protection
- ▶ Provides positive PSACR beyond 500MHz for higher available bandwidth
- ▶ Every master reel is tested to ensure electrical performance compliance
- ▶ RoHS compliant

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

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

DC resistance	Max. 8.2 Ω /100 m at 20° C
Resistance unbalance	Max. 2% at 20° C
Insulation resistance (500V)	Min. 5000 M Ω /Km at 20° C
Mutual capacitance	Nom. 5.1 nf/100 m at 1kHz
Capacitance unbalance (pair to ground)	Max. 160 pf/100 m at 1kHz
Characteristic impedance (1 - 100MHz)	(100 \pm 15) Ω
Nominal velocity of propagation	66%
Test voltage (DC, 1 min.)	1 kV/1 min
Delay Skew	45 ns/100 m (Max.)

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	Cable Category	No. of Pairs	Type of Cable	Size of Conductor	Type of Jacket	Standard Length
CS-C6AUU4	CAT-6A	4	UTP	23AWG	PVC	305M/Box - 500M/Reel
CS-C6AUU4	CAT-6A	4	UTP	23AWG	LSZH	305M/Box - 500M/Reel