

CAT-6A U-FTP 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

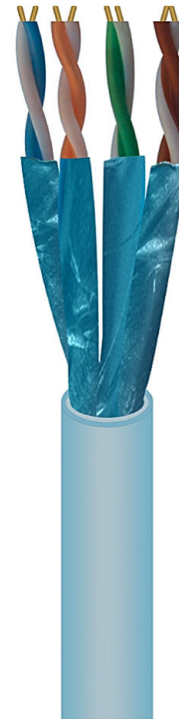
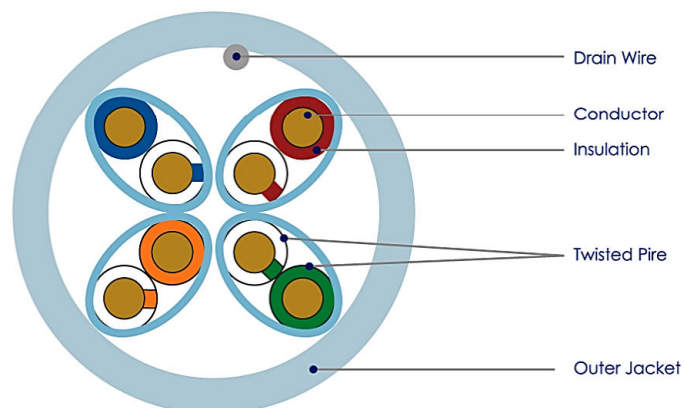
- ▶ Ideal solution for 10 Gigabit Ethernet
- ▶ Individual pair shielding to provide EMI protection
- ▶ Designed with shielding to offer maximum pair separation, increasing key electrical performance parameters
- ▶ Provides positive PSACR beyond 500MHz for higher available bandwidth
- ▶ Every master reel 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 0.36 mm
No. of Pair / Coverage Type	4 / U-FTP
Cable Jacket Type Thickness	PVC / LSZH 0.5 mm
Cable Colour Dimension	Aqua/Blue/Gray 7.47 mm

Pair Identification

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



CAT-6A U-FTP CABLE

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 ± 5 Ω										
Dielectric strength	<table border="0"> <tr> <td>Min</td> <td>Min</td> </tr> <tr> <td>1.0 kVdc</td> <td>2.5 kVdc</td> </tr> <tr> <td>or</td> <td>or</td> </tr> <tr> <td>0.7 kVac</td> <td>1.7 kVac</td> </tr> <tr> <td>for 1 min.</td> <td>for 2 secs.</td> </tr> </table>	Min	Min	1.0 kVdc	2.5 kVdc	or	or	0.7 kVac	1.7 kVac	for 1 min.	for 2 secs.
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or	or										
0.7 kVac	1.7 kVac										
for 1 min.	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-C6AUF4	4	U-FTP	23AWG	7.47	PVC	305M/Box - 500M/Reel
CS-C6AUF4	4	U-FTP	23AWG	7.47	LSZH	305M/Box - 500M/Reel