

CAT-5E F-UTP Cable

Application

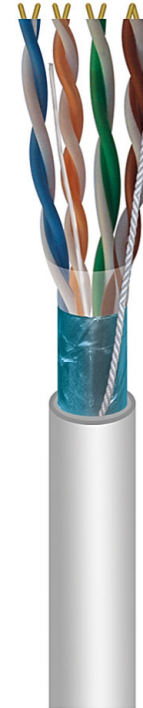
Network and voice application in a standard cabling system, including digital video, broadband & baseband analog video

Features

- ▶ Positive PSACR Beyond 155MHz for future bandwidth requirements
- ▶ Characterized and tested to 100MHz
- ▶ Every master reel is tested to ensure electrical performance compliance
- ▶ Print Legend contains footage marking from 305M to 0M or 500M to 0M
- ▶ RoSH Compliant

Physical Specifications

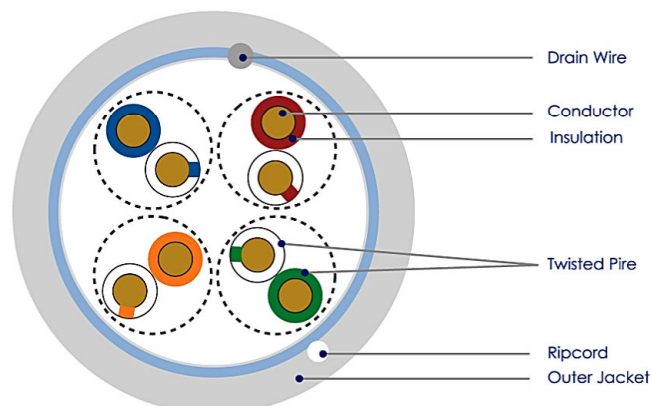
Conductor Size & Material Type	24 AWG Solid Bare Copper
Insulation Material Type Thickness	PE 0.15 mm
No. of Pair / Coverage Type	4 / F-UTP
Cable Jacket Type Thickness	PVC / LSZH 0.55 mm
Cable Colour Dimension	White/Gray/Blue 6.0 mm



CAT-5E F-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 ± 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 5e 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	6.5	25.0	50.3	44.0	47.3	41.0	545.4
16	8.2	25.0	47.2	39.9	44.2	36.9	543.0
20	9.3	25.0	45.8	38.0	42.8	35.0	542.0
31.25	11.7	23.6	42.9	34.1	39.9	31.1	540.4
62.5	17.0	21.5	38.4	28.1	35.4	25.1	538.6
100	22.0	20.1	35.3	24.0	32.3	21.0	537.6

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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-C5FU4	4	F-UTP	24AWG	6.0	PVC	305M/Box - 500M/Reel
CS-C5FU4	4	F-UTP	24AWG	6.0	LSZH	305M/Box - 500M/Reel