

## 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

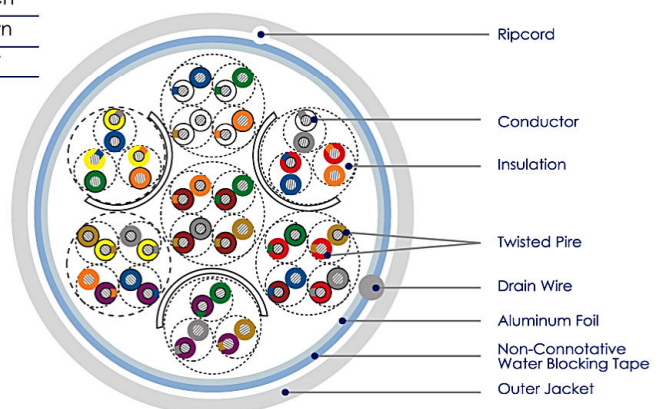
Conductor Size & Material Type	24 AWG Solid Bare Copper
Insulation Material Type Thickness	PE 0.25 mm
No. of Pair / Coverage Type	25 / FTP
Cable Jacket Type Thickness	PVC / LSZH 1.5 mm
Cable Colour Dimension	White/Gray 15.25 mm

### Pair Identification

Pair 1	White/Blue	Pair 11	Black/Blue	Pair 21	Violet/Blue
Pair 2	White/Orange	Pair 12	Black/Orange	Pair 22	Violet/Orange
Pair 3	White/Green	Pair 13	Black/Green	Pair 23	Violet/Green
Pair 4	White/Brown	Pair 14	Black/Brown	Pair 24	Violet/Brown
Pair 5	White/Grey	Pair 15	Black/Grey	Pair 25	Violet/Grey
Pair 6	Red/Blue	Pair 16	Yellow/Blue		
Pair 7	Red/Orange	Pair 17	Yellow/Orange		
Pair 8	Red/Green	Pair 18	Yellow/Green		
Pair 9	Red/Brown	Pair 19	Yellow/Brown		
Pair 10	Red/Grey	Pair 20	Yellow/Grey		



CAT-5E F-UTP CABLE



### Temperature Range

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

## CAT-5E F-UTP Cable

### 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

### 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

### Order Information

Part No	No. of Pairs	Type of Cable	Size of Conductor	Overall Dia. mm	Type of Jacket	Standard Length
CS-C5F25	25	F-UTP	24AWG	15.25	PVC	305M - 500M/Reel
CS-C5F25	25	F-UTP	24AWG	15.25	LSZH	305M - 500M/Reel