



## CAT 6 F UTP

### Overview

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CAT 6 F UTP cables are produced according to ISO IEC 61156-5 and TIA 568-C.2 requirements, an excellent choice to support all Class E applications like Ethernet, Fast Ethernet, Gigabit Ethernet. CAT 6 F UTP cables are suitable for basic voice and data installations up to 250 MHz.

### Construction

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- 23 AWG Bare Copper
- PE Insulation
- Pair Separator PE
- Polyester Band
- Tinned Copper Drain Wire
- Al-Pet Foil 100% Coverage
- Outer Sheath PVC,HFFR\* or PE

### Compliance

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- EIA/TIA-568-C.2
- ISO/IEC 11801 2nd ed
- IEC 61156-5 , EN 50173-1
- EN 50288-5-1

### Application

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- IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T, IEEE 802.5 16 MB, ISDN, TPDDI,
- ATM Power over Ethernet (PoE) / PoE+

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## Technical Properties

Technical Properties	
Copper Weight	20 kg/km
Min. Bending radius during draw in	52 mm
Min. Bending radius permanently installed	26 mm
Max. Tensile Strength	100 N
Min. Crush Resistance	1000 N/10 cm
Min. Impact	10 Impacts
Installation Temperature	0°C ... + 50°C
Operating Temperature	-30°C ... + 70°C
Packing	305 / 500 m
Electrical Properties at 20°C	
Max. Conductor Resistance	9.5 Ω / km
Max. Resistance Unbalance	< 2%
Min. Insulation Resistance	5000 MΩ x m
Mutual Capacitance	50 pF / m
Max. Capacitance Unbalance	1600 pF / km
Impedance at 100 MHz	100 ± 5 Ω
Velocity of Propagation	1
Delay Skew	45 ns / 100 m
Min. TCL	Level 2
Coupling Attenuation	Type 2
Transfer Impedance	Class 2
Test Voltage	1000 V
Operating Voltage	125 V

Frequency (MHz)	Attenuation (dB/100 m)	NEXT (dB)	PS - NEXT (dB)	ACR (dB/100 m)	PS-ACR (dB/100 m)	ACRF (dB/100 m)	PS-ACRF (dB/100 m)	Return Loss (dB)
1	2,0	83	80	85	82	83	80	25
4	3,6	73	70	70	67	70	67	31
10	6,0	73	70	65	62	60	57	30
100	19,5	55	52	40	37	35	32	25
200	28,5	50	47	25	22	30	27	22
250	32,0	45	42	25	22	22	19	22
300	33,0	40	37	15	12	20	17	22
400	39,0	40	37	7	4	20	17	20

Product Name	Outer Sheath Material	Euro Class	Cable Weight	Flame Retardancy	Corrosive Gases	Smoke Density	Options
CAT 6 F/UTP	PVC	Eca	51 Kg/Km	EN 60332-1-2	N/A	N/A	PVC
CAT 6 F/UTP HFFR	HFFR	Dca	52 Kg/Km	EN 60332-1-2	EN 50267-2-3	EN 61034-2	HFFR
CAT 6 F/UTP PE	PE	Fca	45 Kg/Km	N/A	N/A	N/A	PE

Up-to-dated data-sheet <http://www.upcom.com.tr/products/cables/cat-6-f-utp/>

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