



## CAT 6 U UTP

### Overview

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CAT 6 U 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 U 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
- 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 50288-6-1

### 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+

### Technical Properties

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<b>Technical Properties</b>	
Copper Weight	18 kg/km
Min. Bending radius during draw in	50 mm
Min. Bending radius permanently installed	25 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
<b>Electrical Properties at 20°C</b>	
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
<b>Velocity of Propagation</b>	67%
<b>Delay Skew</b>	45 ns / 100 m
<b>Test Voltage</b>	1000 V
<b>Operating Voltage</b>	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 U/UTP	PVC	Eca	44 Kg/Km	EN 60332-1-2	N/A	N/A	Data Sheet PVC
CAT 6 U/UTP HFFR	HFFR	Dca	45 Kg/Km	EN 60332-1-2	EN 50267-2-3	EN 61034-2	HFFR
CAT 6 U/UTP PE	PE	Fca	38 Kg/Km	N/A	N/A	N/A	PE

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

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