



## UTP CAT6 Solid

### Application:

A multipair (usually 4 pair) high performance cable that consists of twisted pair conductors, used mainly for data transmission. Category 6 is recommended for all new and existing installations, supports a frequency range of up to 100MHz and is designed for transmission speeds of up to 1 gigabit per second (Gigabit Ethernet).

### Construction

Center conductor	4x2x0,57mm (23AWG) BC
Dielectric	PE 1.05mm
Outer jacket	PVC

### Performance Characteristics

Frequency	Attenuation	NEXT	Ps-NEXT	ELFEXT	Ps-ELFEXT	Return Loss
1MHz	1,9 dB/100m	72 dB	69 dB	68 dB	65 dB	20 dB
10MHz	5,9 dB/100m	65 dB	62 dB	53 dB	50 dB	23 dB
16MHz	7,5 dB/100m	61 dB	58 dB	48 dB	45 dB	26 dB
25MHz	9,3 dB/100m	55 dB	52 dB	45 dB	42 dB	25 dB
40MHz	12,1 dB/100m	53 dB	50 dB	42 dB	39 dB	23 dB
60MHz	14,8 dB/100m	52 dB	49 dB	35 dB	32 dB	22 dB
100MHz	19,3 dB/100m	50 dB	47 dB	31 dB	28 dB	22 dB
150MHz	23,6 dB/100m	43 dB	40 dB	28 dB	25 dB	19 dB
200MHz	27,5 dB/100m	40 dB	37 dB	24 dB	21 dB	18 dB
250MHz	30,6 dB/100m	38 dB	35 dB	21 dB	18 dB	18 dB

\* PVC - Polyvinylchlorid \* AWG - American Wire Gauge \* AL/PE - Aluminium/Polyethylene

### Electrical Characteristics

Wire DC resistance	14 /100m
Capacitance	44pF/m
Impedance	100 ± 10 Ω
Velocity of propagation	0,69
Delay skew	<40ns/100m