



UTP CAT5E

Application:

A multipair (usually 4 pair) high performance cable that consists of twisted pair conductors, used mainly for data transmission. Category 5 E 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	4x2x0,50mm (24AWG) BC
Dielectric	PE
Outer jacket	PVC

Performance Characteristics

Frequency	Attenuation	NEXT	PS-NEXT	ELFEXT	PS-ELFEXT	Return Loss
1 MHz	1,9 dB/100m	66 dB	63 dB	64 dB	61 dB	20 dB
10 MHz	6,3 dB/100m	51 dB	48 dB	47 dB	44 dB	23 dB
16 MHz	8,0 dB/100m	48 dB	45 dB	44 dB	41 dB	25 dB
20 MHz	9,9 dB/100m	46 dB	43 dB	42 dB	39 dB	25 dB
40 MHz	12,8 dB/100m	44 dB	41 dB	34 dB	31 dB	23 dB
60 MHz	16,0 dB/100m	42 dB	39 dB	28 dB	25 dB	22 dB
100 MHz	21,0 dB/100m	36 dB	33 dB	25 dB	22 dB	21 dB

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

Electrical Characteristics

Wire DC resistance	17Ω/100m
Capacitance	44pF/m
Impedance	100 ± 10 Ω
Velocity of propagation	0,72
Delay skew	<40ns/100m