



UTP CAT5E Solid

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

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|------------------|-----------------------|
| 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 ó Polyvinylchlorid * AWG - American Wire Gauge * AL/PE - Aluminium/Polyethylene

Electrical Characteristics

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