



## UTP CAT5E Solid outdoor double PVC

### 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 0.95mm              |
| Outer jacket     | Double 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       |

\* PE - Polyethylene \* 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 |

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