

Cable for flexible links UTP (U/UTP), Category 5E, 125 MHz,

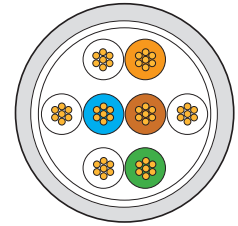
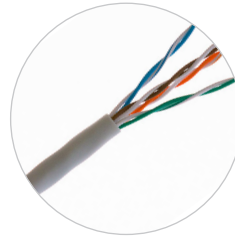
P/N: KE300U26-RLX

305 m in a box

1
Gigabit

Cat. 5E

125
MHz



Features

- cable unshielded, PVC sheath
- enables transmission of all high-speed protocols up to 1000BASE-T
- tested in a bandwidth up to 125 MHz
- enables RJ45 connectors to be mounted directly to a cable

Application

- patch cables and flexible links
- tertiary (Horizontal)
- IEEE 802.3: 10BASE-T; 100BASE-TX; 1000BASE-T
- IEEE 802.5: 16 MB; ISDN; FTDDI; ATM

Construction

| | |
|----------------------|--|
| Conductor | stranded bare copper wire, Ø 0.48 mm, AWG 26 |
| Insulation | polyethylene, Ø 0,95 mm |
| Twisting | 2 cores to the pair |
| Cable lay up | 4 pairs to the core |
| Sheath | PVC, grey RAL 7035 |
| Outer cable diameter | 4,5 mm |

Mechanical properties

| | | |
|----------------------|--------------|------------------|
| Min. bending radius | installation | 36 mm |
| | operation | 18 mm |
| Temperature range | installation | 0 °C to +50 °C |
| | operation | -20 °C to +60 °C |
| Max. tensile load | | 55 N (5 kg) |
| Cable weight (netto) | | 25 kg/ km |

Electrical properties at 20°C

| | | |
|---------------------------------------|--------------------------|-----------------|
| Loop resistance | — | ≤ 260 Ω/km |
| Resistance unbalance | — | ≤ 3 % |
| Insulation resistance | (500 V) | ≥ 2 000 MΩ x km |
| Capacity | at 800 Hz | nom. 48 nF/km |
| Capacity unbalance | (pair/ground) | ≤ 1 500 pF/km |
| Characteristic impedance | při 100 MHz | (100 ± 5) Ω |
| Nominal velocity of propagation (NVP) | — | cca 67 % |
| Propagation delay | Nominal | ≤ 536 ns/100 m |
| Delay skew | Nominal | ≤ 20 ns/100 m |
| Test voltage | (DC, 1 min) core/core | 1 000 V |
| Transfer impedance | at 1 MHz | ≤ 50 mΩ/m |
| | at 10 MHz | ≤ 100 mΩ/m |
| | at 30 MHz | ≤ 200 mΩ/m |
| Coupling attenuation | — | ≥ 50 dB |

Transmission properties at 20°C

| f (MHz) | Attenuation (dB/100m) | NEXT (dB min) | | PS-NEXT (dB min) | | ELFEXT (dB/100m) | | PS-ELFEXT (dB/100m) | | Return loss (dB) |
|------------|--------------------------|------------------|------|---------------------|------|---------------------|------|------------------------|------|---------------------|
| 1,0 | 0,3 | 65,0 | 71,0 | 62,0 | 68,0 | 64,0 | 68,0 | 61,0 | 65,0 | 23,0 |
| 4,0 | 0,6 | 56,0 | 62,0 | 53,0 | 59,0 | 52,0 | 56,0 | 49,0 | 53,0 | 23,0 |
| 10,0 | 0,9 | 50,0 | 56,0 | 47,0 | 53,0 | 44,0 | 48,0 | 41,0 | 45,0 | 23,0 |
| 16,0 | 1,1 | 47,0 | 53,0 | 44,0 | 50,0 | 40,0 | 44,0 | 37,0 | 41,0 | 23,0 |
| 20,0 | 1,3 | 46,0 | 51,0 | 43,0 | 48,0 | 38,0 | 42,0 | 35,0 | 39,0 | 23,0 |
| 31,2 | 1,6 | 43,0 | 49,0 | 40,0 | 46,0 | 34,0 | 38,0 | 31,0 | 35,0 | 23,0 |
| 62,5 | 2,4 | 38,0 | 44,0 | 35,0 | 41,0 | 28,0 | 32,0 | 25,0 | 29,0 | 23,0 |
| 100,0 | 3,0 | 35,0 | 41,0 | 32,0 | 38,0 | 24,0 | 28,0 | 21,0 | 25,0 | 23,0 |
| 125,0 | 3,3 | — | 40,0 | — | 37,0 | — | 26,0 | — | 23,0 | 23,0 |
| 155,5 | 3,6 | — | 38,0 | — | 35,0 | — | 24,0 | — | 21,0 | — |
| 175,5 | 3,9 | — | 37,0 | — | 34,0 | — | 23,0 | — | 20,0 | — |
| 200,0 | 4,1 | — | 36,0 | — | 33,0 | — | 22,0 | — | 19,0 | — |
| 250,0 | 4,4 | — | 35,0 | — | 32,0 | — | 20,0 | — | 17,0 | — |
| 300,0 | 4,8 | — | 34,0 | — | 31,0 | — | 16,0 | — | 13,0 | — |