

CPR
Dca

CE

RoHS

MIN -5°C



FIX +70°C

-90°C

TFKable

U/UTP cat. 6

TT1-6360 26.01.2026, EIA/TIA 568-C.2, ISO/IEC 11801, IEC 61156-5, EN 50173-1, EN 50288-6-1

– Data Communications cables



Applications:

For digital signals transmission with binary flowability, signal frequency spectrum up to 250 MHz. U/UTP cable is intended for use in computer data processing systems, measurement systems, automation and control systems, with high resistance of these systems against electromagnetic interference. For high frequency analogue signals transmission in automation and industrial TV network. Cable is intended to be used for horizontal and vertical installations within data communication networks.

Standard length cable packing: 305m at the box / 500m at the spools

Construction

Conductors

Single soft copper wire with uniform circular cross – section, with homogenous quality and free from defects

Nominal diameter

0.58 mm (23 AWG)

Elongation at break

>15 %

Wires can be jointed by cold welding. Tensile strength of conductor at the place of joint is at least 85% of tensile strength of conductor not containing any joint

Insulation

Solid PE

Elongation at break of insulation

Min. 125 %

Tensile strength

Min. 9 N/mm²

Thickness

Thickness of insulation sufficient to fulfill the parameters requirements

Colour code

1-pair

A wire

White-blue

B wire

Blue

2-pair

White-orange

Orange

3-pair

White-green

Green

4-pair

White-brown

Brown

"a" wire – white wire marked with colour rings

Cross web

PE

Sheath

PVC / PVC FR or LSOH

Colour sheath

Grey for PVC, orange for LSOH

Parameters

Transmission path resistance

≤ 192 Ω/km

Resistance unbalance in transmission path

≤ 2 %

Transmission path capacitance unbalance to ground

≤ 1600 pF/km

Insulation resistance (one wire to all connected together connected to shield and ground), at 20°C

≥ 500 MΩ x km

Wire insulation resistance to probing voltage

1000 / 700 V DC / V AC

Wave impedance of transmission path

Frequency (MHz)	1	4	10	16	20	31.25	62.5	100	155	200	250
Impedance (Ω) max	122.2	115.2	111.9	111.9	111.9	114.1	118.3	121.9	126.0	128.8	131.5
Impedance (Ω) min	81.8	86.8	89.4	89.4	89.4	87.7	84.5	82.0	79.3	77.6	76.3

Parameters

Frequency [MHz]	Attenuation [dB] at least for 100m	NEXT [dB] at least for 100m	PSNEXT [dB] at least for 100m	ACR [dB] at least for 100m	ELFEXT [dB] at least for 100m	PSELFEXT [dB] at least for 100m	RL [dB] at least
1	2.1	66.0	64.0	63.9	66.0	64.0	20
4	3.8	65.3	63.3	61.4	58.0	55.0	23
10	6.0	59.3	57.3	53.3	50.0	47.0	25
16	7.6	56.2	54.2	48.6	45.9	43.0	25
20	8.5	54.8	52.8	46.2	44.0	41.0	25
31.25	10.7	51.9	49.9	41.2	40.1	37.1	23.6
62.5	15.5	47.4	45.4	31.9	34.1	31.1	21.5
100	19.9	44.3	42.3	24.4	30.0	27.0	20.1
155	25.3	41.4	39.4	16.1	26.2	23.2	18.8
200	29.2	39.8	37.8	10.6	24.0	21.0	18.0
250	33.0	38.3	36.3	5.3	22.0	19.0	17.3

Parameters

Size	Nominal overall diameter of cable	Approx. weight of cable
	mm	Kg/km
4 x 2 x 0,5 (23 AWG) PVC	7.0	55
4 x 2 x 0,5 (23 AWG) LLSOH	7.0	58