

U/UTP kat. 5E

TT1-6359 19.07.2012

EIA/TIA 568A, ISO/IEC 11801, IEC 61156-5,
EN 50173-1, EN 50288-3-1



Data Communications cables



CONSTRUCTION

Conductors:	single soft copper wire with uniform circular cross – section, with homogenous quality and free from defects															
Nominal diameter:	0,53 [mm]															
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/mm ²															
Thickness:	thickness of insulation sufficient to fulfil the parameters requirements															
Colour code:	<table border="1"><thead><tr><th>pair</th><th>a wire</th><th>b wire</th></tr></thead><tbody><tr><td>1</td><td>white-blue</td><td>blue</td></tr><tr><td>2</td><td>white-orange</td><td>orange</td></tr><tr><td>3</td><td>white-green</td><td>green</td></tr><tr><td>4</td><td>white-brown</td><td>brown</td></tr></tbody></table> "a" wire – white wire marked with colour rings	pair	a wire	b wire	1	white-blue	blue	2	white-orange	orange	3	white-green	green	4	white-brown	brown
pair	a wire	b wire														
1	white-blue	blue														
2	white-orange	orange														
3	white-green	green														
4	white-brown	brown														
Sheath:	PVC or LSOH															
Colour sheath:	grey for PVC, orange for LSOH															

PARAMETERS

Transmission path resistance	≤ 192 ohm
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 Mohm x km
Wire insulation resistance to probing voltage	1000 / 700 V DC / V AC
Wave impedance of transmission path (for f ≥ 1MHz up to the limit frequency)	100 ± 15

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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
0,722	-	-	-	-	-	-	-
1	2,1	65,3	62,3	63,2	63,8	60,8	20
4	4,0	56,3	53,3	52,3	51,8	48,8	23,1
10	6,3	50,3	47,3	44,0	43,8	40,8	24,5
16	8,0	47,3	44,2	39,1	39,7	36,7	25
20	9,0	45,8	42,8	36,8	37,8	34,8	25
31,25	11,4	42,9	39,9	31,5	33,9	30,9	23,6
62,5	16,5	38,4	35,4	21,9	27,9	24,9	21,5
100	21,3	35,3	32,3	14,0	23,8	20,8	20,1

APPLICATIONS

For digital signals transmission with binary flowability, signal frequency spectrum up to 125 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

Size	Nominal overall diameter of wire	Approx. weight of cable
	mm	kg
4 x 2 x 0,5 (24 AWG) PVC	5,5	35
4 x 2 x 0,5 (24 AWG) LSOH	5,5	37

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