

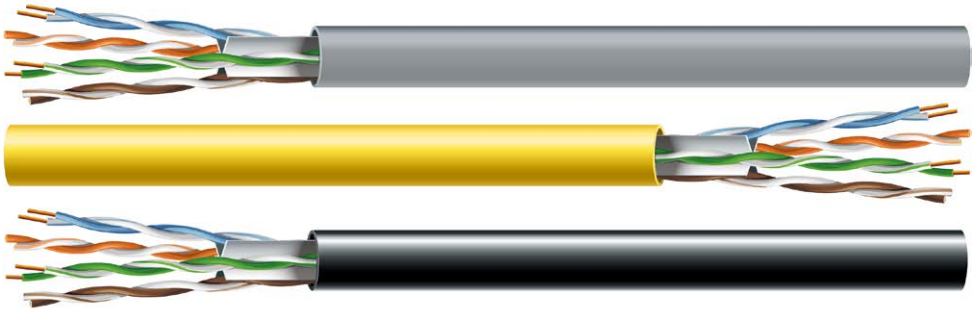
CAT. 6 U/UTP 4X2X23 AWG

CAT. 6 U/UTP 4X2X23 AWG LSZH

CAT. 6 U/UTP 4X2X23 AWG PE

INTO LINE WITH THE REQUIREMENTS

TU U 27.3-36911851-025:2020
DSTU IEC 61156-5



SCOPE OF APPLICATION

Multicore and symmetrical twisted pair cable for digital communications:

- Type **Cat. 6 U/UTP 4x2x23 AWG** is designed for structured cabling networks with single laying inside buildings, constructions and equipment. This cable type can operate at frequencies up to 250 MHz.
- Type **Cat. 6 U/UTP 4x2x23 AWG LSZH** is designed for structured cabling networks with single laying and laying in bundles inside buildings, constructions and equipment. This cable type can operate at frequencies up to 250 MHz in conditions where low smoke emission is required;
- Type **Cat. 6 U/UTP 4x2x23AWG PE** is designed for structured cabling networks with external laying along the walls of buildings, constructions, in mines and collectors. This cable type can operate at frequencies up to 250 MHz.

TECHNICAL SPECIFICATIONS

Tensile strength	max. 100 N
Crushing strength.....	min. 1000N/10 cm
Conductor resistance.....	max. 85 Ω/km
Resistance imbalance.....	max. 2%
Insulation resistance.....	min. 5000 MΩ x m.
Working capacity.....	nom. 50 pF/m
Capacitive asymmetry of the ground pair.....	1600 pF/km
Nominal velocity of propagation.....	67-69%
Signal propagation delay.....	max. 537ns/100m
Test voltage.....	1000 V
Operating voltage.....	max. 72 V

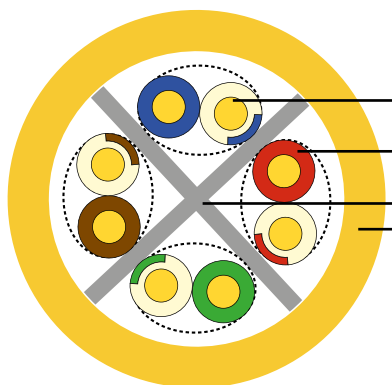
OPERATING CHARACTERISTICS

Cable operating temperature:

- at stationary (fixed) laying.....from -20°C to +60°C
- during laying, installation and operational bending (flexible).....from 0°C to + 50°C

Minimum bending radius:

- at stationary (fixed) laying.....4 x cable diameter
- during laying, installation and operational bending (flexible).....8 x cable diameter



CONSTRUCTION

Conductive core:

23 AWG copper soft wire

Insulation: HDPE polyethylene, colored marking of insulation

Cross divider

Outer shell:

PVC – polyvinyl chloride plastic RAL 7001 grey, TM51 70°C

LSZH – halogen-free compound RAL 1015 cream, 70°C

PE – light-stabilized polyethylene RAL 9011 black, 80°C

Fre- quency, MHz	Attenuation [dB/100 m]		NEXT [dB]		PS-NEXT [dB]		ACR [dB/100 m]		PS-ACR [dB/100 m]		ACR-F [dB/100 m]		PS-ACR-F [dB/100 m]		RL [dB]	
	typ	max.	typ	min.	typ	min.	typ	min.	typ	min.	typ	min.	typ	min.	typ	min.
1	1.9	2.1	82	66,0	79	64,0	80	63,9	77	61,9	85	66	82	64	26	20
4	3.8	3,8	76	65,3	73	63,3	72	61,4	69	59,4	77	58	74	55	31	23
10	5.9	6.0	70	59,3	67	57,3	64	53,3	61	51,3	68	50	64	47	32	25
16	7.4	7,6	65	56,2	62	54,2	58	48,6	55	46,6	63	45,9	60	42,9	34	25
31.25	10,5	10,7	60	51,9	57	49,9	49	41,1	46	39,1	51	40,1	48	37,1	36	23,6
62.50	15,1	15.5	58	47,4	55	45,4	43	31,9	40	29,9	44	34,1	41	31,1	32	21,5
100	19,0	19,9	52	44,3	49	42,3	33	24,4	30	22,4	35	30	32	27	32	20,1
250	31,0	33,0	48	38,3	45	36,3	17	5,3	14	3,3	19	22	16	19	30	17,3
300	36,0	-	43	-	40	-	13	-	10	-	14	-	11	-	28	-
400	41,6	-	40	-	37	-	8	-	5	-	8	-	5	-	26	-

Type of cable	Diameter, mm	Copper weight, kg/km	Cable weight, kg/km
Cat. 6 U/UTP 4x2x23 AWG	6,0	18	39
Cat. 6 U/UTP 4x2x23 AWG LSZH	6,0	18	40
Cat. 6 U/UTP 4x2x23 AWG PE	6,0	18	39

The cable is delivered on plywood coils.