

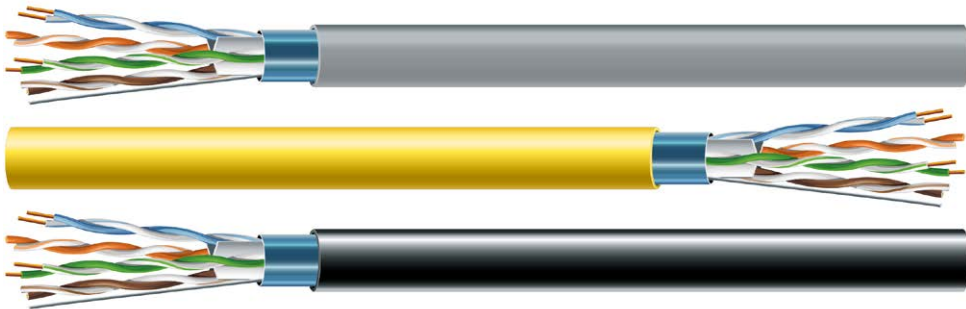
# CAT. 6 F/UTP 4X2X23 AWG

## CAT. 6 F/UTP 4X2X23 AWG LSZH

### CAT. 6 F/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 F/UTP 4x2x23AWG** 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 in conditions of increased electromagnetic action;
- Type **Cat. 6 F/UTP 4x2x23AWG 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 of increased electromagnetic action and where low smoke emission is required;
- Type **Cat. 6 F/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 in conditions of increased electromagnetic action.

## 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

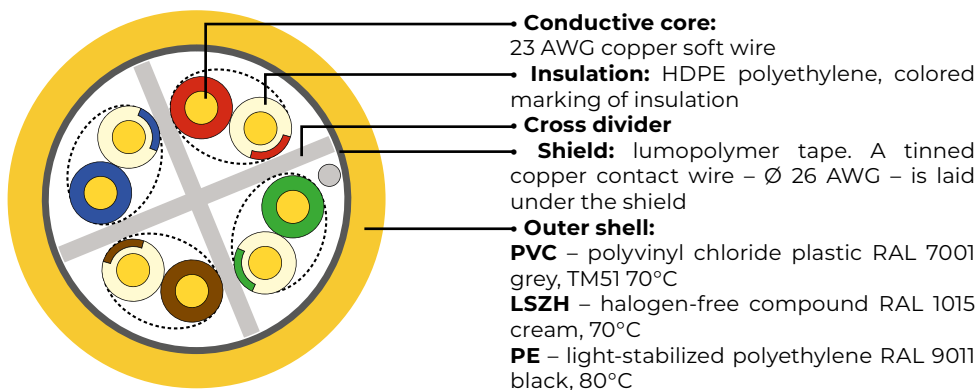
## Cable operating temperature:

- 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



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.
<b>1</b>	1.9	2.1	82	66,0	79	64,0	80	63,9	77	61,9	85	66	82	64	25	20
<b>4</b>	3.8	3.8	76	65,3	73	63,3	72	61,4	69	59,4	77	58	74	55	31	23
<b>10</b>	5.9	6.0	70	59,3	67	57,3	64	53,3	61	51,3	68	50	64	47	32	25
<b>16</b>	7.4	7.6	65	56,2	62	54,2	58	48,6	55	46,6	63	45,9	60	42,9	34	25
<b>31.25</b>	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
<b>62.50</b>	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
<b>100</b>	19.0	19.9	52	44,3	49	42,3	33	24,4	30	22,4	35	30	32	27,0	32	20,1
<b>250</b>	31.0	33.0	48	38,3	45	36,3	17	5,3	14	3,3	19	22	16	19,0	30	17,3
<b>300</b>	36.0	-	43	-	40	-	13	-	10	-	14	-	11	-	28	-
<b>400</b>	41.6	-	40	-	37	-	8	-	5	-	8	-	5	-	26	-

Type of cable	Diameter, mm	Copper weight, kg/km	Cable weight, kg/km
<b>Cat. 6 F/UTP 4x2x23 AWG</b>	7,2	18	42
<b>Cat. 6 F/UTP 4x2x23 AWG LSZH</b>	7,2	18	43
<b>Cat. 6 F/UTP 4x2x23 AWG PE</b>	7,2	18	42

The cable is delivered on plywood coils.