

Cat.6 F/UTP PVC, LSZH, PE 4x2x23 AWG



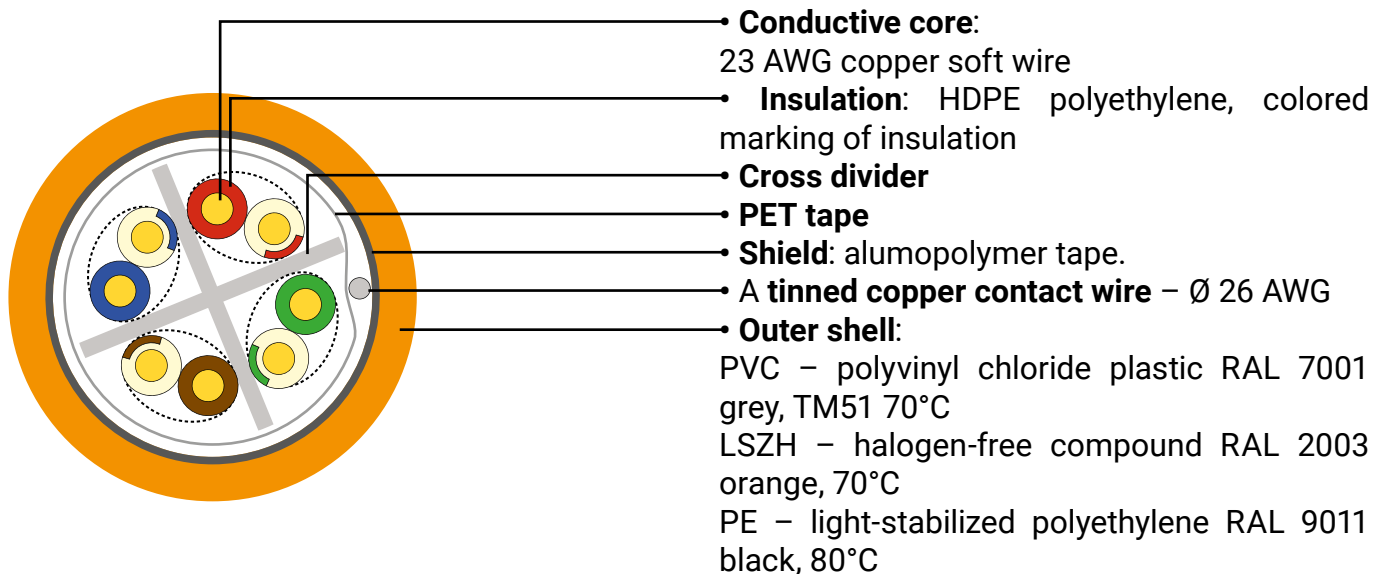
Application

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.



Cable structure



Standards

ISO/IEC 11801-1, IEC 61156-5

EN 50288-5-1

ANSI EIA/TIA 568.2-D

Specifications

Temperature range: fixed.....-20°C...+60°C

flexing.....0°C...+50°C

Bending radius: fixed.....min. 4 x D

flexing.....min. 8 x D

Tensile strength.....max. 100 N

Conductor resistance.....max. 85 Ω/km

Resistance imbalance.....max. 2%

Insulation resistance.....min. 5000 MΩ x m

Capacitance.....max. 56 pF/m

Capacity imbalance.....max. 1600 pF/km

Velocity of propagation.....67-69%

Propagation delay.....max. 537 ns/100 m

Signal delay.....max. 45 ns/100m

Test voltage.....1000 V

Operating voltage.....max. 72 V

TCL min. «Level 2»

Coupling attenuation «Type II»

Transfer impedance «Class 2»

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	75,3	79	72,3	80	73,2	77	70,2	85	68	82	65	26	20
4	3.8	3,8	76	66,3	73	63,3	72	62,4	69	59,4	77	56	74	53	31	23
10	5.9	6.0	70	60,3	67	57,3	64	54,3	61	51,3	68	48	64	45	32	25
16	7.4	7,6	65	57,2	62	54,2	58	49,6	55	46,6	63	43,9	60	40,9	34	25
31.25	10,5	10,7	60	52,9	57	49,9	49	42,1	46	39,1	51	38,1	48	35,1	36	23,6
62.50	15,1	15,5	58	48,4	55	45,4	43	32,9	40	29,9	44	32,1	41	29,1	32	21,5
100	19,0	19,9	52	45,3	49	42,3	33	25,4	30	22,4	35	28	32	25	32	20,1
250	31,0	33,0	48	39,3	45	36,3	17	6,3	14	3,3	19	20	16	17	30	17,3

*Values up to 4 MHz are for general information

Cable structure	Diameter, mm nom	Cable weigh, kg/km, approx.	Sheath color	Packaging, m	CPR
Cat. 6 F/UTP 4x2x23 AWG	7,5	53	Grey	305/500/1000	ECA
Cat. 6 F/UTP 4x2x23 AWG LSZH	7,5	56	Orange	305/500/1000	DCA
Cat. 6 F/UTP 4x2x23 AWG PE	7,5	46	Black	305/500/1000	FCA