

**ODESKABEL**JOINT
STOCK
COMPANY

KPVE-VP (250) 4x2x0,54 (F/UTP-cat.6)

Cable F/UTP cat.6 4x2x0,54 LSZH

APPLICATION

PBX, V.11, X.21, ISDN, Ethernet (10Base-T), ATM-25/52/155 Mbit/s, 100VG-AnyLAN, Fast Ethernet (100BASE-TX), Token Ring 16/100 Mbit/s, Firewire 100 Mbit/s, PoE (IEEE 802.3af), PoE+ (IEEE 802.3at), PoE++ (IEEE 802.3bt), HDBaseT, 1000BASE-T, 2.5GBASE-T, 5GBASE-T, 10GBASE-T

INSTALLATION AND OPERATION CONDITIONS

For stationary installation inside buildings, stations, structures and equipment in conditions of heightened electromagnetic impacts. Operated on frequencies up to 250 MHz.

COMPLIANCE WITH THE REQUIREMENTS

ISO/IEC 11801:2002

EN 50173-1:2002

ANSI/TIA/EIA-568-B.2-1-2002

IEC 61156-5:2002

IEC 60332-1

MECHANICAL CHARACTERISTICS

Temperature range:

During installation -10 °C ... +60 °C

After installation -20 °C ... +60 °C

Bending radius:

≥ 10 cable diameters

Tensile stress ≤ 85 N

Conductor Ø 0,57mm

Insulated conductor Ø 1,11mm

Outer cable Ø 6,9mm

DESIGN

1) Conductor: soft copper wire

2) Insulation: PE

3) Pair: two conductors twisted together

Color identification of pairs:

pair 1: white-blue / blue

pair 2: white-orange / orange

pair 3: white-green / green

pair 4: white-brown / brown

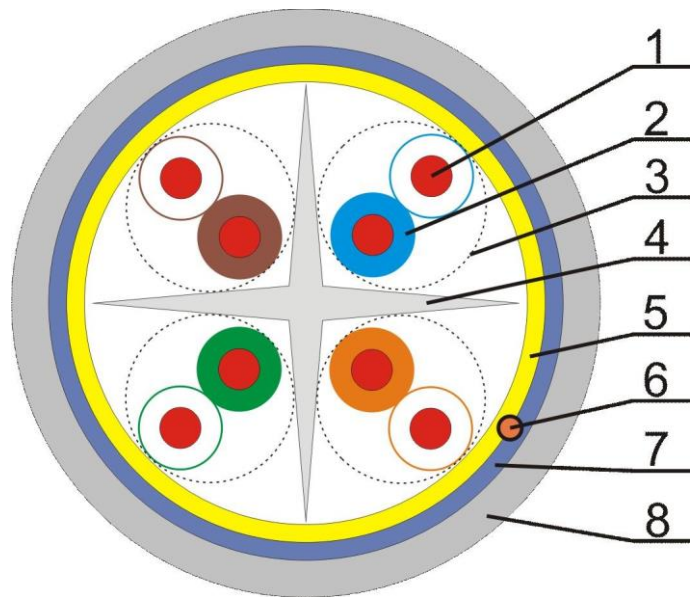
4) Cross-web 4x4 mm

5) Core wrapping

6) Copper tinned contact wire Ø 0,4 mm is applied between the sheath and shield.

7) Core shield: aluminum polymer foil (metal outside)

8) Sheath: LSZH



ELECTRICAL CHARACTERISTICS AT 20 °C

Parameter	Unit	Value
Capacitance	pF/m	≤ 56
Direct current resistance	Ohm/km	≤ 85
Insulation resistance	GOhm/km	≥ 5
Resistance unbalance	%	2
Signal propagation velocity	s	0,68
Propagation delay	ns/100 m	≤ 534+36/f
Delay shift on the frequency 100 MHz	ns/100 m	≤ 30
Characteristic impedance in the frequency range of: 1-100 MHz 100-250 MHz	Ohm	100±15 100±22
Test voltage between cores, (DC, 2 s)	kV	2,5

Frequency, MHz	1	4	10	16	20	31,25	62,5	100	125	200	250
Attenuation, dB, max	2,1	3,8	6	7,6	8,5	10,8	15,5	19,9	22,5	29,1	33
NEXT, dB, min	75,3	66,3	60,3	57,3	55,8	52,8	48,3	45,3	43,8	40,8	39,3
PS NEXT, dB, min	72,3	63,3	57,3	54,3	52,8	49,8	45,3	42,3	40,8	37,8	36,3
ELFEXT, dB, min	68	56	48	44	42	38	32	28	26	22	20
PS ELFEXT, dB, min	65	53	45	41	39	35	29	25	23	19	17
RL, dB, min	20,0	23,0	25,0	25,0	25,0	23,6	21,5	20,1	19,4	18,0	17,3

IEC 61156-5, values lower than 4 MHz are given for information only

ORDER INFORMATION

P/N	Cable type	Packing	Weight, kg/km
7932020	KPVE-VP (250) 4x2x0,54 (F/UTP-cat.6)	plywood reel, 500 m	55