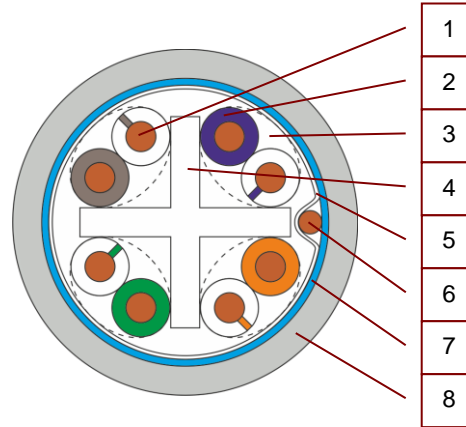


DESIGN

- 1) Conductor: soft copper wire \varnothing 0,54 mm
- 2) Insulation: HDPE, \varnothing 1,03 mm
- 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
- 5) Core wrapping
- 6) Copper tinned contact wire \varnothing 0,4 mm
- 7) Core shield: aluminum polymer foil (metal outside)
- 8) Jacket: PVC or LSZH, thickness 0,5 mm, nominal cable \varnothing 6,7 mm



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, 1000BASE-T, 2.5GBASE-T, 5GBASE-T, 10GBASE-T, HDBaseT, PoE, PoE+, PoE++

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

- Cabling: ISO/IEC 11801-1, EN 50173-1, ANSI/TIA-568-C.2
- Cable: IEC 61156-5, EN 50288-6-1
- Fire safety:
 - Flame propagation (PVC and LSZH) – IEC 60332-1-2
 - Zero halogen, no corrosive gases (LSZH) – IEC 60754-2
 - Smoke density (LSZH) – IEC 61034-2

MECHANICAL CHARACTERISTICS

- Temperature range:
 - During installation -10 °C ... +60 °C
 - After installation -20 °C ... +60 °C
- Bending radius:
 - During installation \geq 8 cable diameters
 - After installation \geq 4 cable diameters
- Tensile stress \leq 85 N

ELECTRICAL CHARACTERISTICS AT 20 °C

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

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

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

ORDER INFORMATION

P/N	Cable name	Jacket	Standard packing	Weight, kg/km
7932020	KPVE-VP (250) 4*2*0,54 (F/UTP-cat.6)	PVC	Plywood reel, 305 or 500 m	46,1
7932025	KPVong-HFE-VP (250) 4*2*0,54 (F/UTP-cat.6 LSOH)	LSZH	Plywood reel, 305 or 500 m	46,5