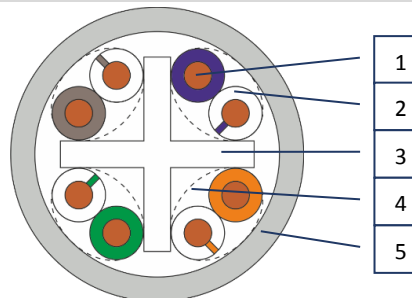

DESIGN

- 1) Conductor: soft copper wire 23AWG (\varnothing 0,54 mm)
- 2) Insulation: HDPE, \varnothing 0,98 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: HDPE
- 5) Jacket: PVC, thickness 0,5 mm, nominal cable \varnothing 5,8 mm


APPLICATION

- PBX, V.11, X.21, ISDN, Ethernet (10Base-T), ATM-25/52/155 Mbit/s, 100VG-AnyLAN, Token Ring 16/100 Mbit/s
- Fast Ethernet (100BASE-TX), Gigabit Ethernet (1000BASE-T), 2,5 Gbit/s Ethernet (2.5GBASE-T) and 5 Gbit/s (5GBASE-T) with a Channel length of 100 meters confirmed, 10 Gbit/s (10GBASE-T) with a Channel length of 55 meters confirmed
- PoE, PoE+, PoE++

INSTALLATION AND OPERATION CONDITIONS

For stationary installation inside buildings, stations, structures and equipment. Operated on frequencies up to 250 MHz

COMPLIANCE WITH THE REQUIREMENTS

Cabling: ISO/IEC 11801-1, EN 50173-1, ANSI/TIA-568.2-D

Cable: IEC 61156-5, EN 50288-3-1, ANSI/TIA-568.2-D

Fire safety:

- Flame propagation: EN 60332-1-2

CPR rating: Eca

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, 100 M

Parameter	Unit	Value
Capacitance	pF/m	\leq 56
Direct current resistance	Ohm/km	\leq 93,2
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: 1-250 MHz	Ohm	100 \pm 15
Test voltage between cores, (DC, 2 s)	kV	2,5

TRANSMISSION CHARACTERISTICS AT 20 °C, 100 M

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	Standard packing	Weight, kg/km
49205	KPV-VP (250) 4x2x0,54 (U/UTP-cat.6)	Cardboard box 305 m	35,8