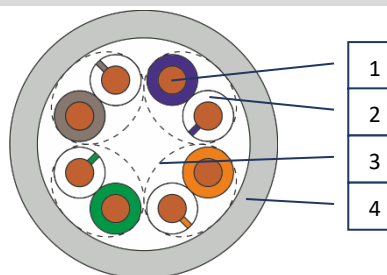




DESIGN

- 1) Conductor: soft copper wire AWG24 (Ø 0,49 mm)
 - 2) Insulation: HDPE, Ø 0,87 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) Jacket: LSZH, thickness 0,5 mm, nominal cable Ø 4,7 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)
- PoE, PoE+, PoE++

INSTALLATION AND OPERATION CONDITIONS

For stationary installation inside buildings, stations, structures and equipment. Operated on frequencies up to 100 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
- Heat release, Smoke production, Flaming droplets: EN 50399
- Zero halogen, no corrosive gases: IEC 60754-2

CPR euroclass: Dca

MECHANICAL CHARACTERISTICS

Temperature range:

- During installation -10 °C ... +60 °C
- After installation -20 °C ... +60 °C

Bending radius:

- During installation ≥ 8 cable diameters
- After installation ≥ 4 cable diameters

Tensile stress: ≤ 85 N

ELECTRICAL CHARACTERISTICS AT 20 °C, 100 M

Parameter	Unit	Value
Capacitance	pF/m	≤ 56
Direct current resistance	Ohm/km	≤ 95
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: 1-250 MHz	Ohm	100±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
Attenuation, dB, max	2,1	4,1	6,5	8,3	9,3	11,7	17,0	22,0
NEXT, dB, min	65,3	56,2	50,3	47,2	45,7	42,8	38,3	35,3
PS NEXT, dB, min	62,3	53,2	47,3	44,2	42,7	39,8	35,3	32,3
ELFEXT, dB, min	64	51,9	44	39,9	37,9	34,1	28	24
PS ELFEXT, dB, min	61	48,9	41	36,9	34,9	31,1	25	21
RL, dB, min	20	23	25	25	25	23,6	21,5	20,1

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

ORDER INFORMATION

P/N	Cable name	Standard packing	Weight, kg/km
7931246	KPVng-HF-VP (100) 4*2*0,49 (U/UTP-cat.5E LSFROH)	Reelex Air cardboard box 305 m	27,9