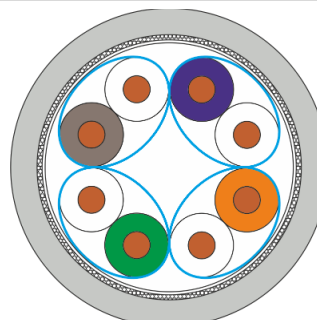




DESIGN

- 1) Conductor: soft copper wire AWG23 (Ø 0,565 mm)
- 2) Insulation: skin-foam-skin HDPE, Ø 1,35 mm
- 3) Pair: two conductors twisted together
Color identification of pairs:
pair 1: white / blue
pair 2: white / orange
pair 3: white / green
pair 4: white / brown
- 4) Pair shielding: Individual Al/Pet foil (metal outside)
- 5) Core wrapping with PET-film
- 6) Core shield: tinned copper braid, density 31%
- 7) Jacket: LSZH, thickness 0,5 mm, nominal cable Ø 7,0 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), 5 Gbit/s (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 600 MHz

COMPLIANCE WITH THE REQUIREMENTS

Cabling: ISO/IEC 11801-1, EN 50173-1

Cable: IEC 61156-5, EN 50288-4-1

Fire safety:

- Flame propagation – IEC 60332-1-2
- Zero halogen, no corrosive gases – IEC 60754-2
- Smoke density – IEC 61034-2

CPR class: 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, 85 M

Parameter	Unit	Value
Capacitance	pF/m	≤ 56
Direct current resistance	Ohm/km	≤ 74
Insulation resistance	GOhm*km	≥ 5
Resistance unbalance	%	2
Signal propagation velocity	s	0,79
Propagation delay	ns/100 m	≤ 534+36/√f
Characteristic impedance in the frequency range of: 1-100 MHz 100-250 MHz 250-600 MHz	Ohm	100±15 100±22 100±25
Test voltage between cores, (DC, 2 s)	kV	2,5

TRANSMISSION CHARACTERISTICS AT 20 °C, 85 M

Frequency, MHz	1	4	10	16	20	31,25	62,5	100	200	300	400	600
Attenuation, dB, max	2,1	3,7	5,8	7,3	8,2	10,3	14,6	18,5	26,5	32,7	38,0	47,1
NEXT, dB, min	78	78	78	78	78	78	78	75	71	68	66	64
ACR, min	75,9	74,3	72,2	70,7	69,8	67,7	63,9	56,9	44,4	35,6	28,4	16,6
PS NEXT, dB, min	75	75	75	75	75	75	75	72	68	65	63	61
PS-ACR, min	72,9	71,3	69,2	67,7	66,8	64,7	60,9	53,9	41,4	32,6	25,4	13,6
ELFEXT, dB, min	78	78	75	71	69	65	59	55	49	46	43	40
PS ELFEXT, dB, min	75	75	72	68	66	62	56	52	46	43	40	37
RL, dB, min	20,0	23,0	25,0	25,0	25,0	23,6	21,5	20,1	18,0	17,3	17,3	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
7935199	KPpVng-HFO-VPE (600) 4*2*0,56 (S/FTP-cat.7 LSFROH)	Cardboard reel-in-box 305 m	51,66