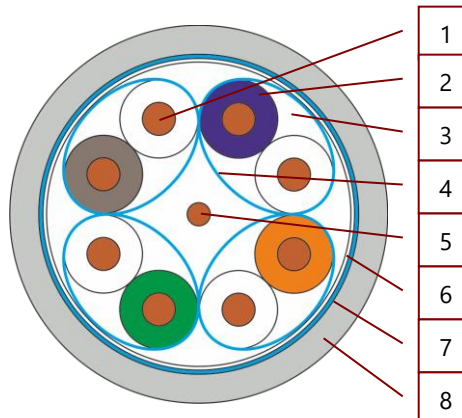


DESIGN

- 1) Conductor: soft copper wire $\varnothing$ 0,56 mm
 - 2) Insulation: skin-foam-skin HDPE, $\varnothing$ 1,35 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) Pair shielding: Individual Al/Pet foil (metal outside)
 - 5) Copper tinned contact wire $\varnothing$ 0,4 mm
 - 6) Core wrapping, overlapping minus 40%
 - 7) Core shield: Aluminum/Polyester foil
 - 7) Jacket: PVC or LSZH, thickness 0,5 mm, nominal cable $\varnothing$ 6,9 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, Firewire 100 Mbit/s, 1000BASE-T, 2.5GBASE-T, 5GBASE-T, 10GBASE-T, HDBaseT, PoE, PoE+, PoE++

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

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

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

Parameter	Unit	Value
Capacitance	pF/m	≤ 56
Direct current resistance	Ohm/km	≤ 84
Insulation resistance	GOhm/km	≥ 5
Resistance unbalance	%	2
Signal propagation velocity	s	0,80
Propagation delay	ns/100 m	$\leq 534+36/\sqrt{f}$
Delay shift on the frequency 100 MHz	ns/100 m	≤ 30
Characteristic impedance in the frequency range of: 1-100 MHz 100-250 MHz 250-600 MHz	Ohm	100 $\pm$ 15 100 $\pm$ 22 100 $\pm$ 25
Test voltage between cores, (DC, 2 s)	kV	2,5

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	Jacket	Standard packing	Weight, kg/km
7935051	KPpVE-VPE (600) 4*2*0,56 (F/FTP-cat.7)	PVC	Plywood reel, 305 or 500 m	51,6
7935043	KPpVong-HFE-VPE (600) 4*2*0,56 (F/FTP-cat.7 LSOH)	LSZH	Plywood reel, 305 or 500 m	50,8