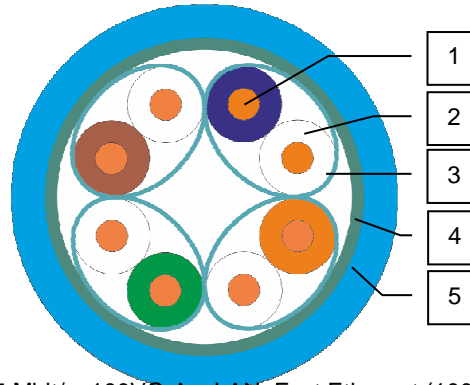


**DESIGN**

- 1) Core: Solid annealed copper  $\varnothing$  0,565 mm ( $\pm 0,005$  mm)
- 2) Insulation: Skin-Foam-Skin PE  $\varnothing$  1,35 mm
- 3) Shielding 1: Individual Al/Pet foil (metal outside)
- 4) Shielding 2: Tinned copper braid – Coverage min. 35%
- 5) Jacket: LSZH, nominal cable  $\varnothing$  6,4 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, Gigabit Ethernet (1000BASE-T), Firewire 100 Mbit/s, 10 Gigabit Ethernet (10GBASE-T), ATM LAN 1,2 Gbit/s

**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**

ISO/IEC 11801, EN 50173, IEC 61156-5, IEC 60332-1, IEC 61034-1, IEC 60754-2

**MECHANICAL CHARACTERISTICS**

Temperature range:

During installation -10 °C ... +60 °C

After installation -20 °C ... +60 °C

Bending radius:

During installation  $\geq 10$  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	$\leq 84$
Insulation resistance	GOhm/km	$\geq 5$
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	$\leq 30$
Characteristic impedance in the frequency range of: 1-100 MHz 101-250 MHz 251-600 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	250	500	600
Attenuation, dB, max	2,0	3,7	5,9	7,4	8,3	10,4	14,9	19,0	31,0	45,3	50,1
NEXT, dB, min	78	78	78	78	78	78	75,4	72,4	66,4	61,9	60,7
PS NEXT, dB, min	75	75	75	75	75	75	72,4	69,4	63,4	58,9	57,7
ELFEXT, dB, min	78	78	75,3	71,2	69,3	65,4	59,4	55,3	47,3	41,3	39,7
PS ELFEXT, dB, min	75	75	72,3	68,2	66,3	62,4	56,4	52,3	44,3	38,3	36,7
RL, dB, min	20	23	25	25	25	23,6	21,5	20,1	17,3	15,2	14,7

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

**ORDER INFORMATION**

P/N	Cable type	Packing	Weight, kg/km
7935041	KPpVong-HFO-VPE (600) 4x2x0,56 (S/FTP-cat.7 LSOH)	plywood reel, 305/500/1000 m	50,2