

## 49341 - KGPVE-VP (100) 4x2x0,51 (FTP-cat.5E patch20) Patch-cable FTP cat.5E 4x2x0,51 PVC

### 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, ATM LAN 1,2 Gbit/s

### INSTALLATION AND OPERATION CONDITIONS

For the manufacture of patch-cords. Operated on frequencies up to 100 MHz in conditions of heightened electromagnetic impacts.

### COMPLIANCE WITH THE REQUIREMENTS

ISO/IEC 11801:2002  
EN 50173-1:2002  
ANSI/TIA/EIA-568-B.2-1-2002  
IEC 61156-5:2002  
IEC 60332-1

### 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

### DESIGN

1) Conductor: twisted copper wires 7x0,175 mm

Diameter: 0,525 mm

2) Insulation: PE

Conductor diameter: 1,0 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

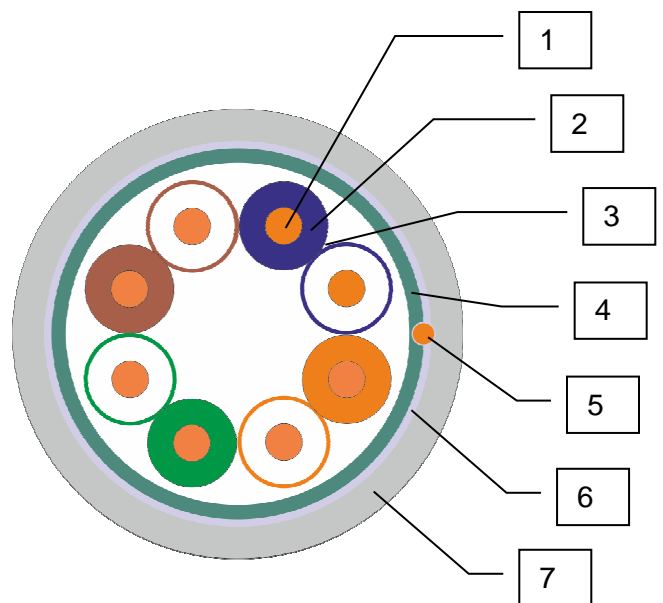
pair 4: white-brown / brown

4) Core wrapping

5) Copper tinned contact wire  $\varnothing 0,4$  mm is applied between the sheath and shield.

6) Core shield: aluminum polymer foil (metal inside)

7) Sheath: PVC, nominal cable diameter: 5,9 mm



## ELECTRICAL CHARACTERISTICS AT 20 °C

Parameter	Unit	Value
Capacitance	pF/m	≤ 56
Direct current resistance	Ohm/km	≤ 115
Insulation resistance	GOhm/km	≥ 5
Resistance unbalance	%	2
Signal propagation velocity	s	0,65
Characteristic impedance in the frequency range of:	Ohm	100±15
Test voltage between cores, (DC, 2 s)	kV	2,5

Frequency, MHz	1	4	10	16	20	31,25	62,5	100
Attenuation, dB, max	2,5	4,9	7,8	9,9	11,1	14,1	20,4	26,4
NEXT, dB, min	65,3	56,3	50,3	47,2	45,8	42,9	38,4	35,3
PS NEXT, dB, min	62,3	53,3	47,3	44,2	42,8	39,9	35,4	32,3
ELFEXT, dB, min	64	52	44	40	38	34	28	24
PS ELFEXT, dB, min	61	49	41	37	35	31	25	21
RL, dB, min	20,0	23,0	25,0	25,0	25,0	23,3	20,7	19,0

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

## ORDER INFORMATION

P/N	Cable type	Packing	Weight, kg/km
49341	KGPVE-VP (100) 4x2x0,51 (FTP-cat.5E patch20)	box, 305 m	41