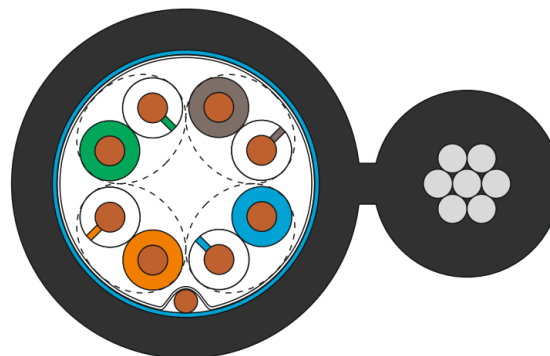


DESIGN

- 1) Conductor: soft copper wire $\varnothing$ 0,48 mm
- 2) Insulation: HDPE, $\varnothing$ 0,97 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: PET tape
- 5) Drain wire: tinned copper wire $\varnothing$ 0,4 mm
- 6) Core shield: aluminum polymer foil (metal outside)
- 7) Strength member: galvanized steel wire rope jacketed together with cable core in a FIG-8 formation, 4x0,5 mm
- 8) Jacket: UV resistant PE, thickness 0,7 mm, nominal cable dimensions 5,9x8,5 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)
- PoE, PoE+

INSTALLATION AND OPERATION CONDITIONS

To provide support for aerial outdoor applications in conditions of heightened electromagnetic impacts. Operated on frequencies up to 250 MHz

COMPLIANCE WITH THE REQUIREMENTS

Cabling: ISO/IEC 11801-1, ANSI/TIA-568.2-D
Cable: IEC 61156-5, ANSI/TIA-568.2-D
CPR euroclass: Eca

MECHANICAL CHARACTERISTICS

Temperature range:

- During installation -10 °C ... +60 °C
- After installation -50 °C ... +60 °C

Bending radius:

- During installation ≥ 10 cable diameters
- After installation ≥ 4 cable diameters

Tensile strength: ≤ 1200 N

ELECTRICAL CHARACTERISTICS AT 20 °C, 95 M

Parameter	Unit	Value
Capacitance	pF/m	≤ 56
Direct current resistance	Ohm/km	≤ 95
Insulation resistance	GOhm/km	≥ 5
Resistance unbalance	%	2
NVP	%	68
Propagation delay	ns/100 m	$\leq 534+36/\sqrt{f}$
Delay skew on the frequency 100 MHz	ns/100 m	≤ 30
Characteristic impedance in the frequency range of: 1-100 MHz	Ohm	100 $\pm$ 15
Test voltage between cores, (DC, 2 s)	kV	2,5

TRANSMISSION CHARACTERISTICS AT 20 °C, 95 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
49583	KPPet-VP (100) 4x2x0,48 (F/UTP-cat.5E)	Plywood reel 305/500 m	44,5