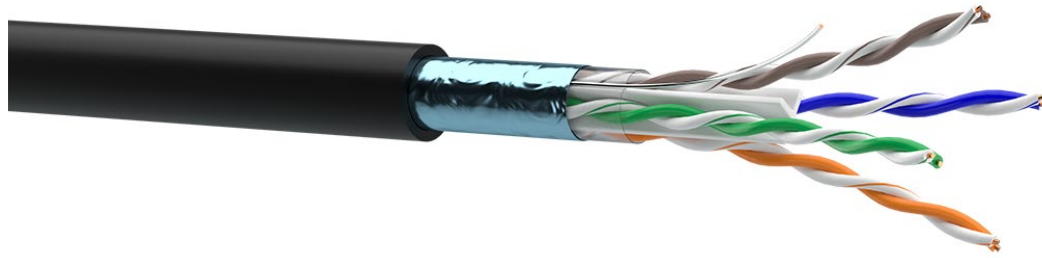
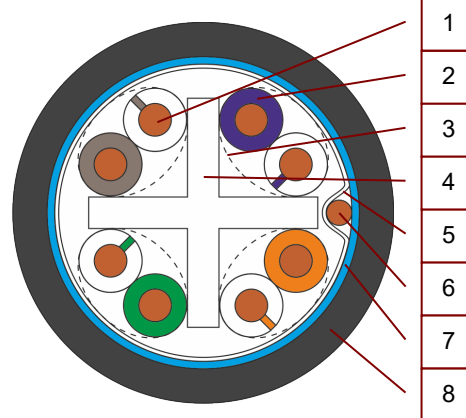


CAT.6 F/UTP 4PR 23AWG OUTDOOR



DESIGN

- 1) Conductor: soft copper wire \varnothing 0,54 mm
 - 2) Insulation: HDPE, \varnothing 1,03 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) Cross-web
 - 5) Core wrapping
 - 6) Copper tinned contact wire \varnothing 0,4 mm
 - 7) Core shield: aluminum polymer foil (metal outside)
 - 8) Jacket: PE, thickness 0,6 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, PoE (IEEE 802.3af), PoE+ (IEEE 802.3at), PoE++ (IEEE 802.3bt), HDBaseT, 1000BASE-T, 2.5GBASE-T, 5GBASE-T, 10GBASE-T (under 55 m)

COMPLIANCE WITH THE REQUIREMENTS

Cabling: ISO/IEC 11801-1, EN 50173-1, ANSI/TIA-568-C.2
Cable: IEC 61156-5, EN 50288-5-1

INSTALLATION AND OPERATION CONDITIONS

For outdoor installation in telephone ducts, collectors, mines, on the walls of buildings in conditions of heightened electro-magnetic impacts. Operated on frequencies up to 250 MHz

MECHANICAL CHARACTERISTICS

Temperature range:
 During installation -10 °C ... +60 °C
 After installation -50 °C ... +60 °C

Bending radius:
 During installation \geq 8 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 85
Insulation resistance	GOhm/km	\geq 5
Resistance unbalance	%	2
Signal propagation velocity	s	0,68
Propagation delay	ns/100 m	\leq 534+36/vf
Delay shift on the frequency 100 MHz	ns/100 m	\leq 30
Characteristic impedance in the frequency range of: 1-100 MHz	Ohm	100 \pm 15
100-250 MHz		100 \pm 22
Test voltage between cores, (DC, 2 s)	kV	2,5

Frequency, MHz	1	4	10	16	20	31,25	62,5	100	250
Attenuation, dB, max	2,1	3,8	6	7,6	8,5	10,8	15,5	19,9	33
NEXT, dB, min	75,3	66,3	60,3	57,3	55,8	52,8	48,3	45,3	39,3
PS NEXT, dB, min	72,3	63,3	57,3	54,3	52,8	49,8	45,3	42,3	36,3
ELFEXT, dB, min	68	56	48	44	42	38	32	28	20
PS ELFEXT, dB, min	65	53	45	41	39	35	29	25	17
RL, dB, min	20,0	23,0	25,0	25,0	25,0	23,6	21,5	20,1	17,3

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

ORDER INFORMATION

P/N	Cable name	Jacket	Standard packaging	Weight, kg/km
7934018	KPPE-VP (250) 4*2*0,54 (F/UTP-cat.6)	PE	Plywood reel, 305 or 500 m	42,7