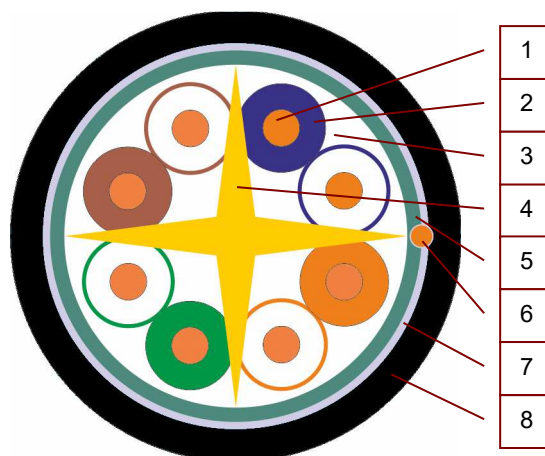


OPTRO NET CATEGORY 6 CABLE - F/UTP - 4x2x0,54 PE 250 MHZ OUTDOOR

DESIGN

- 1) Conductor: soft copper wire, \varnothing 0,54 mm ($\pm 0,005$ mm)
- 2) Insulation: PE, \varnothing 1,09 mm
- 3) Pair: two conductors twisted together
- 4) Cross-web 4x4 mm
- 5) Core wrapping
- 6) Copper tinned contact wire \varnothing 0,4 mm
- 7) Core shield: aluminum polymer foil (metal outside)
- 8) Sheath: PE, nominal cable diameter: 7,0 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

COMPLIANCE WITH THE REQUIREMENTS

ISO/IEC 11801:2002,
EN 50173-1:2002,
ANSI/TIA 568-C.2,
IEC 61156-5

INSTALLATION AND OPERATION CONDITIONS

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

MECHANICAL CHARACTERISTICS

Temperature range:
During installation -15 °C ... +60 °C
After installation -50 °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	≤ 85
Insulation resistance	GOhm/km	≥ 5
Resistance unbalance	%	2
Signal propagation velocity	s	0,68
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	Ohm	100 \pm 15 100 \pm 22
Test voltage between cores, (DC, 2 s)	kV	2,5

Frequency, MHz	1	4	10	16	20	31,25	62,5	100	125	200	250
Attenuation, dB, max	2,1	3,8	6	7,6	8,5	10,8	15,5	19,9	22,5	29,1	33
NEXT, dB, min	75,3	66,3	60,3	57,3	55,8	52,8	48,3	45,3	43,8	40,8	39,3
PS NEXT, dB, min	72,3	63,3	57,3	54,3	52,8	49,8	45,3	42,3	40,8	37,8	36,3
ELFEXT, dB, min	68	56	48	44	42	38	32	28	26	22	20
PS ELFEXT, dB, min	65	53	45	41	39	35	29	25	23	19	17
RL, dB, min	20,0	23,0	25,0	25,0	25,0	23,6	21,5	20,1	19,4	18,0	17,3

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

ORDER INFORMATION

P/N	Cable type	Packing	Weight, kg/km
7934018	CATEGORY 6 CABLE - F/UTP - 4x2x0,54 PE250 MHZ OUTDOOR	plywood reel, 305/500/1000 m	43,1