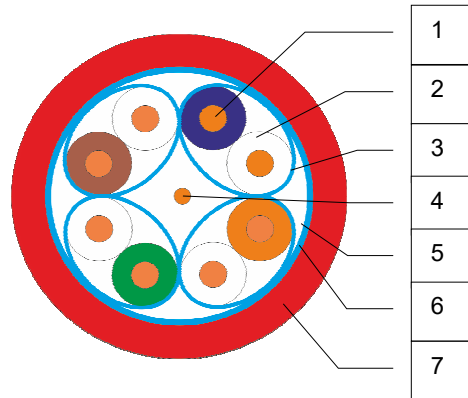


OPTRO NET CATEGORY 6A CABLE 500MHZ F/FTP 4PR OUTDOOR

DESIGN

- 1) Conductor: Solid annealed copper \varnothing 0,565 mm ($\pm 0,005$ mm)
- 2) Insulation: Skin-Foam-Skin PE \varnothing 1,35 mm
- 3) Pairs shielding: Aluminum/Polyester foil
- 4) Drain wire: Solid tinned copper \varnothing 0,4 mm
- 5) Core wrapping
- 6) Core shield: Aluminum/Polyester foil
- 7) Sheath: PE, sheath thickness 0,6 mm, nominal cable diameter: 7,1 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, 1000BASE-TX), Firewire 100 Mbit/s, ATM LAN 1,2 Gbit/s, 10 Gigabit Ethernet (10GBASE-T*)

COMPLIANCE WITH THE REQUIREMENTS

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

INSTALLATION AND OPERATION CONDITIONS

For outdoor installation in telephone ducts, collectors, mines, on the walls of buildings. Operated on frequencies up to 500 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	≤ 84
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 250-500 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	125	200	250	300	400	500
Attenuation, dB, max	2,1	3,8	5,9	7,5	8,4	10,5	15,0	19,1	21,5	27,6	31,1	34,3	40,1	45,3
NEXT, dB, min	75	66	60	57	56	53	48	45	44	41	39	38	36	35
PS NEXT, dB, min	72	63	57	54	53	50	45	42	41	38	36	35	33	32
ELFEXT, dB, min	68	56	48	44	42	38	32	28	26	22	20	18	16	14
PS ELFEXT, dB, min	65	53	45	41	39	35	29	25	23	19	17	15	13	11
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	17,3	17,3	17,3

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

ORDER INFORMATION

P/N	Cable name	Packing	Weight, kg/km
7935076	OPTRO-NET CATEGORY 6A CABLE 500MHZ F/FTP 4PR OUTDOOR 4*2*0,56	plywood reel, 305/500 m	47,4