

U/UTP Cat.6 PE Outdoor



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 (до 55 метров)

Typical design

Cable structure

1. Conducting conductor (TPA): annealed copper wire
2. Insulation: solid, PE
3. Pair: two insulated conductors twisted together with agreed steps and with the following color identification:
 - pair 1: white-blue / blue
 - pair 2: white-orange / orange
 - pair 3: white-green / green
 - pair 4: white-brown / brown
4. Pair separator (cordel): PE
5. Belt insulation: PET-E film, overlapping
6. Sheath: light-stabilized PE black color

Standards / TU

Cable requirement: DSTU IEC 61156-5, DSTU EN 50288-6-1, TU U 27.3-05758730-097: 2018

Cable requirement: DSTU ISO / IEC 11801, DSTU EN 50173-1

Main technical and operational characteristics

Temperature range:

- during installation: -10 ° C ... + 60 ° C

- during operation: -50 ° C ... + 60 ° C

Bending radius: ≥ 10 cable diameters

Tensile force: ≤ 85 N

Electrical characteristics at 20°C

Parameter	Ed.ed.	Value
Working capacity, no more	nF / km	56
Electrical resistance tfzh to direct current:	Om / km	
- with a diameter of 0.55 mm, no more		87
- with a diameter of 0.54 mm, no more		82
- with a diameter of TPG 0.57 mm, not more than		75
Ohmic asymmetry lived in pairs, no more	%	2
Electrical insulation resistance, not less	G0m / km	5
Nominal signal propagation speed	%	68
Wave impedance module	Ohm	
- in the frequency range from 1 to 100 MHz		100 +/- 15
- in the frequency range from 101 to 250 MHz		100 +/- 22
DC test voltage between conductors, conductors and shield for 2 kV seconds		2.5



Signal transmission characteristics at 20°C

Frequency, MHz	1	4	10	16	20	31.25	62.5	100	250
Own attenuation, dB / 100 m, no more	2.1	3.8	6	7.6	8.5	10.7	15.5	19.9	33
NEXT, dB, not less	75.3	66.3	60.3	57.2	55.8	52.9	48.4	45.3	39.3
PS NEXT, dB, not less	72.3	63.3	57.3	54.2	52.8	49.9	45.4	42.3	36.3
ELFEXT, dB, not less	68	56	48	43.9	42	38.1	32.1	28	20
PS ELFEXT, dB, not less	65	53	45	40.9	39	35.1	29.1	25	17
Return Loss, dB, not less	20	2.3	25	25	25	23.6	21.5	20.1	17.3

Order Information

Code	Name	Shell Diameter of TPG, mm	Conductor diameter mm	Diameter / cable size, mm	Packaging	Estimated weight, kg / km
7933068	KPP-VP (250) ON 4 * 2 * 0.57 (U/UTP-cat6)	0.57	0.94	6.1	box 305m	35.7
7933096	KPP-VP (250) ON 4 * 2 * 0.54 (U/UTP-cat6)	0.54	0.89	5.9	box 305m	33.1
7933101	KPP-VP (250) ON 4 * 2 * 0.52 (U/UTP-cat6)	0.525	0.87	5.64	box 305m	30