

GAALNET® U/UTP 5E PVC UV Solid 100V

Voice and data transmission cables for outdoor use, acc. to CEI UNEL 36762, EN 50575:2014 + A1:2016, Eca



ELETTROTEK KABEL® GAALNET® U/UTP 5E PVC UV 100 V, Eca



Construction:

Conductor:	solid plain annealed copper conductor, Cl. 1, acc. to IEC 60228
Insulation:	PE compound
Colour cores:	1st. pair: white/blue - blue 2nd pair: white/orange - orange 3th. pair: white/green - green 4th. pair: white/brown - brown
Stranding:	cores twisted in pairs, pairs twisted together
Outer sheath:	blue (similar RAL 5015), PVC UV compound

Technical data:

Nominal voltage:	100 V
Test voltage:	
alternate current (50 Hz):	700 V
direct current:	1000 V
Temperature range:	
operating temperature:	-30°C up to +70°C
installation temperature:	-10°C up to +50°C
Min. bending radius	
fixed laying:	4 x d
flexible installation:	6 x d
Loop resistance at 20°C:	190 Ohm/km
Insulation resistance:	5 GOhm/km
Resistance unbalance:	max. 2%
Characteristic impedance:	100 ± 5 Ω
Capacitance at 1 KHz:	50 ± 5 nF/m
Capacitance unbalance at 1 kHz:	max. 1600 pF/Km
NVP value:	69%
Return loss (min.):	
from 4 up to 10 MHz:	20 + 5lg(f)
from 10 up to 20 MHz:	25
from 20 up to 200 MHz:	25 - 7lg(f)
Bandwidth:	200 MHz

Resistance:



Flame retardant acc. to:
EN 60332-1

Features:

suitable for outdoor use

UV resistant

acc. to CPR UE 305/11, EN 50575:2014 + A1:2016, Eca

classification (CEI UNEL 35016), EN 13501-6

suitable for installation in a single conduit or channel or bridge, without interposing separators, with cable system of Category I^o marked "450/750" or "0,6/1 kV" (as required by CEI-UNEL 36762)

RoHS and CE approval



ELECTRICAL CHARACTERISTICS AT 20°C

Frequency MHz	RL dB	Attenuation dB/100 m	NEXT dB	PS NEXT dB	ELFEXT dB	PS ELFEXT dB
1	20	2,1	65,3	62,3	63,8	60,8
4	23	4	56,3	53,3	51,8	48,8
10	25	6,3	50,3	47,3	43,8	40,8
16	25	8	47,2	44,2	39,7	36,7
20	25	9	45,8	42,8	37,8	34,8
30	23,8	11,2	43,1	40,1	34,3	31,3
45	22,5	13,9	40,5	37,5	30,7	27,7
60	21,7	16,2	38,6	35,6	28,2	25,2
80	20,8	18,9	36,7	33,8	25,7	22,7
100	20,1	21,3	35,3	32,3	23,8	20,8
120	19,5	23,6	34,1	31,1	22,2	19,2
130	19,3	24,7	33,6	30,6	21,5	18,5
155	18,8	27,2	32,4	29,5	20	17
175	18,4	29,2	31,6	28,6	19	16
200	18	31,5	30,8	27,8	17,8	14,8

Part no.

Nominal cross-section
no. of pairs x AWG

Outer-Ø
ca. mm
± 10%

Copper weight
kg/km

Cable weight approx.
kg/km

71010BBX042A24

4x2x24/1

5,8

15

41

Other dimensions and colours available on request.