

NETWORK & HOME AUTOMATION CABLES

GAALNET® U/UTP 6 PVC Solid 100 V

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

ELETTROTEK KABEL® GAALNET® U/UTP 6 PVC 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:	grey (similar RAL 7035), PVC compound

Resistance:



Flame retardant acc. to:
EN 60332-1

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:	8 x d
DC Loop resistance at 20°C:	165 Ohm/km
Insulation resistance:	min. 5 GOhm/km
Resistance unbalance:	max. 2%
Characteristic impedance at 100 MHz:	100 ± 5 Ω
Capacitance at 1 KHz:	50 ± 5 nF/m
Capacitance unbalance pair to ground 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:	350 MHz

Features:

on request with LSOH outer sheath
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	66	64	66	64
4	23	3,8	65,3	63,3	58	55
10	25	6	59,3	57,3	50	47
16	25	7,6	56,2	54,2	45,9	42,9
20	25	8,5	54,8	52,8	44	41
30	23,8	10,5	52,1	50,1	40,5	37,5
45	22,5	13	49,5	47,5	36,9	33,9
60	21,7	15,1	47,6	45,6	34,5	31,4
80	20,8	17,7	45,8	43,8	32	28,9
100	20,1	19,9	44,3	42,3	30	27
120	19,5	22	43,1	41,1	28,4	25,4
150	18,9	24,8	41,7	39,7	26,5	23,5
180	18,3	27,5	40,5	38,5	24,9	21,9
200	18	29,1	39,8	37,8	24	21
220	17,7	30,7	39,2	37,2	23,1	20,1
250	17,3	33	38,3	36,3	22	19
280	17	35,2	37,6	35,6	21	18
300	16,8	36,6	37,1	35,1	20,5	17,5
320	16,6	38	36,7	34,7	19,9	16,9
350	16,3	40	36,1	34,1	19,1	16,1

Part no.	Nominal cross-section no. of pairs x AWG	Outer-Ø ca.mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km
71030B8X042A23	4x2x23/1	5,8	19	41

Other dimensions and colours available on request.