

GAALNET® SAT-COAXIAL Cu 100 V

Cu - AL/PET-AL braid - PVC 100 V, EN 50575:2014 + A1:2016, Eca

ELETTROTEK KABEL® GAALNET® SAT-COAXIAL Cu 100 V, Eca

Construction:

Conductor:	solid plain annealed copper conductor Cl. 1, 1x0,80 mm or 1x1,13 mm
Insulation):	PEE compound
Colour core:	natural
Screen:	Al/PET + aluminium braid, 40% coverage
Wrapping:	PET tape
Outer sheath:	white (similar RAL9003), PVC compound

Features:

acc. to standard EN 50117-2-4
acc. to CPR UE 305/11, EN 50575:2014 + A1:2016, Eca
classification (CEI UNEL 35016), EN 13501-6
RoHS and CE approval



Technical data:

Nominal voltage:	100 V
Test voltage:	
0,8 mm ² :	3 kV
1,13 mm ² :	4,5 kV
Temperature range:	-20°C up to +70°C
Min. bending radius	
single bend (0,8 mm ²):	25 mm
multiple bend (0,8 mm ²):	50 mm
single bend (1,13 mm ²):	35 mm
multiple bend (1,13 mm ²):	70 mm
Tensile strength:	
0,8 mm ² :	90 N
1,13 mm ² :	150 N
Characteristic impedance:	75 ± 3 Ω
Capacitance:	52 ± 2 pF/m
Velocity ratio:	85 %
Return loss (min.):	
from 5 up to 470 MHz:	28 dB (0,8 mm ²) / 30 dB (1,13 mm ²)
from 470 up to 1000 MHz:	26 dB
from 1000 up to 2000 MHz:	20 dB
from 2000 up to 3000 MHz:	18 dB
Screening Att. (AS):	
from 30 up to 1000 MHz:	75 dB
from 1000 up to 2000 MHz:	70 (0,8 mm ²) / 65 dB (1,13 mm ²)
from 2000 up to 3000 MHz:	60 dB

ELECTRICAL CHARACTERISTICS AT 20°C (0,8 mm²)

Frequency MHz	Attenuation dB/100 m
5	2,1
50	5,6
200	11,1
470	17
862	23
1000	24,9
1750	33,5
2150	37,4
2400	40,9
3000	45

ELECTRICAL CHARACTERISTICS AT 20°C (1,13 mm²)

Frequency MHz	Attenuation dB/100 m
5	1,5
50	4,3
200	8,1
470	12,6
862	16,9
1000	18,9
1750	25,4
2150	28,5
2400	30,2
3000	34

Part no.	Nominal cross-section no. of pairs x mm ²	Outer-Ø ca.mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km
84040BWH010928	1 x 0,8	5	5	22
84050BWH010929	1 x 1,13	6,8	9	40

Other dimensions and colours available on request.