GAALNET® SAT-COAXIAL Cu 100 V

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

Construction:

Conductor:	solid plain annealed copper conductor Cl. 1, 1x0,80 mm or 1x1,13 mm
Insulation:	PEE compound
Colour core:	blue
Screen:	Al/PET/Al + tinned copper braid, 40% coverage
Wrapping:	PET tape
Outer sheath:	white (similar RAL 9003), 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 mm²:	3 kV
1,13 mm²:	4,5 kV
Temperature range:	-20°C up to +70°C
Min. bending radius	
single bend (0,8 mm²):	25 mm
multiple bend (0,8 mm²):	50 mm
single bend (1,13 mm²):	35 mm
multiple bend (1,13 mm²):	70 mm
Tensile strength:	
0,8 mm²:	90 N
1,13 mm²:	150 N
Characteristic impedance:	75 Ω ± 3 Ω
Capacitance:	55 ± 2 pF/m
Velocity ratio:	85 %
Return loss (min.):	
from 5 up to 470 MHz:	28 dB (0,8 mm²) / 30 dB (1,13 mm²)
from 470 up to 1000 MHz:	26 dB
from 1000 up to 2000 MHz:	20 dB
from 2000 up to 3000 MHz:	18 dB
Transfer imp. (TI):	
from 5 up to 30 MHz:	max. 15 mΩ/m
Screening Att. (AS):	
from 30 up to 1000 MHz:	75 dB
from 1000 up to 2000 MHz:	80 dB
from 2000 up to 3000 MHz:	65 dB (0,8 mm²) / 75 dB (1,13 mm²)

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	16,8
1000	18,5
1750	25,1
2150	27,9
2400	30,2
3000	33,5

Part no.	Nominal cross-section no. of pairs x mm²	Outer-Ø ca.mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km
84060BWN010930	1 x 0,8	5	9	25,9
84070BWN010924	1 x 1,13	6,7	14	43,9

Other dimensions and colours available on request.