

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.