

Coaxial Cable SPUMA_600

Description

PE Foam - 50 Ohm - double screened



Technical Data

Construction

| | Material | Detail | Diameter |
|------------------|---------------------------|-------------------------|-------------------|
| Centre conductor | Aluminium / Copper | Wire | 4.44 mm |
| Dielectric | SPE (Foamed Polyethylene) | | 11.56 mm |
| Outer conductor | Aluminum / PES | longitudinal Foil, 100% | 11.71 mm |
| Outer conductor | Copper, Tin plated | Braid, 78 % | 12.55 mm |
| Jacket | PE (Polyethylene) | RAL 9005 - bk | 14.99 mm +/- 0.25 |

Print: HUBER+SUHNER SPUMA 600 50 Ohm (PA no.)

Electrical Data

| | |
|--------------------------------|--------------------------------------|
| Impedance | 50 Ω +/- 2 |
| Operating Frequency | 6 GHz |
| Capacitance | 78 pF/m |
| Velocity of signal propagation | 85 % |
| Signal delay | 3.9 ns/m |
| Insulation resistance | ≥ 1 x 10 ⁸ MΩm |
| Min. screening effectiveness | ≥ 90 dB (up to 6 GHz) |
| Max. operating voltage | ≤ 2 kV _{rms} (at sea level) |
| Test voltage | 4 kV _{rms} (50 Hz/1 min) |

Mechanical Data

| | |
|---------------------|-------------------------------------|
| Weight | 20 kg/100 m |
| Min. bending radius | static repeated (for ≤ bendings) |
| | 38 mm 152 mm |

Environmental Data

| | |
|--------------------------|------------------|
| Temperature range | -40 °C... +85 °C |
| Installation temperature | -20 °C... +60 °C |
| Halogen test | IEC 60754 |
| 2011/65/EU (RoHS) | compliant |

Additional Information

Ordering Information

Order as SPUMA_600

Remarks

(For details refer to the HUBER+SUHNER RF CABLES GENERAL CATALOGUE or contact your nearest HUBER+SUHNER partner)

Suitable Connectors

Cable group X29 12 mm / 50 Ohm

Coaxial Cable SPUMA_600

Matrix typical Attenuation [formula: $(a \cdot f^{0.5} + b \cdot f)$] and maximum Power CW [formula: $(p/f^{0.5})$]

Coefficients:

a = 0.0786

b = 0.008

f_{max} = 6

P at 1GHz = 930

| Frequency (GHz) | Nom. attenuation (dB / m) sea level 25° C ambient temperature | Nom. attenuation (dB / ft) sea level 25° C ambient temperature | Max. CW power (watt) sea level 40° C ambient temperature |
|--------------------|---|--|--|
| 0.3 | 0.05 | 0.014 | 1698 |
| 0.6 | 0.07 | 0.020 | 1201 |
| 0.9 | 0.08 | 0.025 | 980 |
| 1.2 | 0.1 | 0.029 | 849 |
| 1.5 | 0.11 | 0.033 | 759 |
| 1.8 | 0.12 | 0.037 | 693 |
| 2.1 | 0.13 | 0.040 | 642 |
| 2.4 | 0.14 | 0.043 | 600 |
| 2.7 | 0.15 | 0.046 | 566 |
| 3.0 | 0.16 | 0.049 | 537 |
| 3.3 | 0.17 | 0.052 | 512 |
| 3.6 | 0.18 | 0.054 | 490 |
| 3.9 | 0.19 | 0.057 | 471 |
| 4.2 | 0.19 | 0.059 | 454 |
| 4.5 | 0.2 | 0.062 | 438 |
| 4.8 | 0.21 | 0.064 | 424 |
| 5.1 | 0.22 | 0.067 | 412 |
| 5.4 | 0.23 | 0.069 | 400 |
| 5.7 | 0.23 | 0.071 | 390 |
| 6.0 | 0.24 | 0.073 | 380 |