

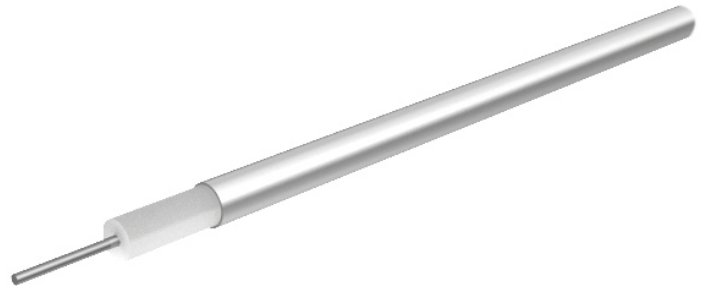
Formable microwave cable

SR_47_M17 Item: 22810500

Description

Semi-rigid: Semi-rigid, formable microwave cables

MIL style, 50 Ohm, 107 GHz, 100°C, ø1.19 mm, no jacket



Technical Data

Construction

| | Material | Detail | Diameter |
|------------------|--------------------------------|------------|----------|
| Centre conductor | Steel, Copper+Silver plated | Wire | 0.29 mm |
| Dielectric | PTFE (Polytetrafluoroethylene) | | 0.93 mm |
| Outer conductor | Copper | Tube, 100% | 1.19 mm |

Electrical Data

| | |
|--------------------------------|--------------------------------------|
| Impedance | 50 Ω +/- 2.5 |
| Operating Frequency | 107 GHz |
| Capacitance | 105 pF/m |
| Velocity of signal propagation | 69.5 % |
| Signal delay | 4.8 ns/m |
| Screening effectiveness | ≥ 120 dB (up to 18 GHz) |
| Operating voltage | ≤ 1 kV _{rms} (at sea level) |

Mechanical Data

| | |
|---------------------|-------------------|
| Weight | 0.71 kg/100 m |
| Min. bending radius | static 3.18 mm |

Environmental Data

| | |
|--|---------------------------|
| Temperature range | -55 °C ... +100 °C |
| Installation temperature | -20 °C... +60 °C |
| Halogen free | No |
| 2011/65/EU (RoHS - including 2015/863 and 2017/2102) | compliant |
| 1907/2006/EC (REACH) | compliant |
| 2000/53/EC (ELV) | compliant |
| 2012/19/EU (WEEE) | no special marking needed |

Additional Information

Remarks

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

Suitable Connectors

| | |
|-------------|-------------------|
| Cable group | Y15 1 mm / 50 Ohm |
|-------------|-------------------|

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

Coefficients:

a = 1.04044

b = 0.03967

f_{max} = 107

P at 1GHz = 32

| 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 (W) sea level 40° C ambient temperature |
|--------------------|---|--|---|
| 5.35 | 2.62 | 0.798 | 14 |
| 10.7 | 3.83 | 1.167 | 10 |
| 16.05 | 4.8 | 1.464 | 8 |
| 21.4 | 5.66 | 1.726 | 7 |
| 26.75 | 6.44 | 1.964 | 6 |
| 32.1 | 7.17 | 2.185 | 6 |
| 37.45 | 7.85 | 2.393 | 5 |
| 42.8 | 8.5 | 2.592 | 5 |
| 48.15 | 9.13 | 2.783 | 5 |
| 53.5 | 9.73 | 2.966 | 4 |
| 58.85 | 10.32 | 3.144 | 4 |
| 64.2 | 10.88 | 3.317 | 4 |
| 69.55 | 11.44 | 3.486 | 4 |
| 74.9 | 11.98 | 3.650 | 4 |
| 80.25 | 12.5 | 3.811 | 4 |
| 85.6 | 13.02 | 3.969 | 3 |
| 90.95 | 13.53 | 4.124 | 3 |
| 96.3 | 14.03 | 4.276 | 3 |
| 101.65 | 14.52 | 4.426 | 3 |
| 107.0 | 15.01 | 4.574 | 3 |

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