

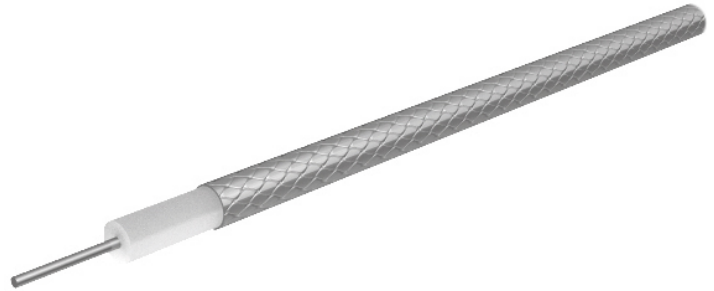
Formable microwave cable SUCOFORM_86_CT

Description

Sucoform: Formstable, hand-formable alternatives to semi-rigid microwave cables

RG403 dimension, phase stable over temperature, 50 Ohm, 40

GHz, 200°C, ø2.15 mm, no jacket



Technical Data

Construction

| | Material | Detail | Diameter |
|------------------|------------------------------|------------------------|----------|
| Centre conductor | Copper, Silver plated | Wire | 0.62 mm |
| Dielectric | Low density fluorine polymer | | 1.74 mm |
| Outer conductor | Copper, Tin plated | Tin soaked braid, 100% | 2.15 mm |

Print: HUBER+SUHNER SUCOFORM 86 CT 50 Ohm (PA no.)

Electrical Data

| | | |
|--------------------------------|------------------|---|
| Impedance | | 50 Ω +/- 2 |
| Operating Frequency | | 40 GHz |
| Capacitance | | 83.5 pF/m |
| Velocity of signal propagation | | 80 % |
| Signal delay | | 4.2 ns/m |
| Screening effectiveness | | ≥ 100 dB (up to 18 GHz) |
| Operating voltage | | ≤ 0.34 kV _{rms} (at sea level) |
| Test voltage | | 0.75 kV _{rms} (50 Hz/1 min) |
| Phase vs Temperature | -55°C... + 125°C | 400 ppm |
| Phase vs Bending | | 5 °/GHz |

Mechanical Data

| | | |
|---------------------|----------|--------------|
| Weight | | 1.6 kg/100 m |
| Min. bending radius | static | 6 mm |
| | repeated | |
| | dynamic | 20 mm |

Environmental Data

| | |
|--------------------------|---------------------------|
| Temperature range | -65 °C ... +200 °C |
| Installation temperature | -20 °C... +60 °C |
| Halogen free | No |
| 2011/65/EU (RoHS) | compliant |
| 2006/1907/EC (REACH) | compliant |
| 2000/53/EC (ELV) | compliant |
| 2012/19/EU (WEEE) | no special marking needed |

Additional Information

Ordering Information

Order as SUCOFORM_86_CT

Remarks

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

Suitable Connectors

Cable group Y20 2 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 = 0.5476

b = 0.0477

f_{max} = 40

P at 1GHz = 165

| 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 |
|--------------------|---|--|---|
| 2,0 | 0,87 | 0,265 | 117 |
| 4,0 | 1,29 | 0,392 | 83 |
| 6,0 | 1,63 | 0,496 | 67 |
| 8,0 | 1,93 | 0,588 | 58 |
| 10,0 | 2,21 | 0,673 | 52 |
| 12,0 | 2,47 | 0,753 | 48 |
| 14,0 | 2,72 | 0,828 | 44 |
| 16,0 | 2,95 | 0,900 | 41 |
| 18,0 | 3,18 | 0,970 | 39 |
| 20,0 | 3,4 | 1,037 | 37 |
| 22,0 | 3,62 | 1,103 | 35 |
| 24,0 | 3,83 | 1,167 | 34 |
| 26,0 | 4,03 | 1,229 | 32 |
| 28,0 | 4,23 | 1,290 | 31 |
| 30,0 | 4,43 | 1,350 | 30 |
| 32,0 | 4,62 | 1,409 | 29 |
| 34,0 | 4,81 | 1,467 | 28 |
| 36,0 | 5,0 | 1,525 | 28 |
| 38,0 | 5,19 | 1,581 | 27 |
| 40,0 | 5,37 | 1,637 | 26 |