

Formable microwave cable

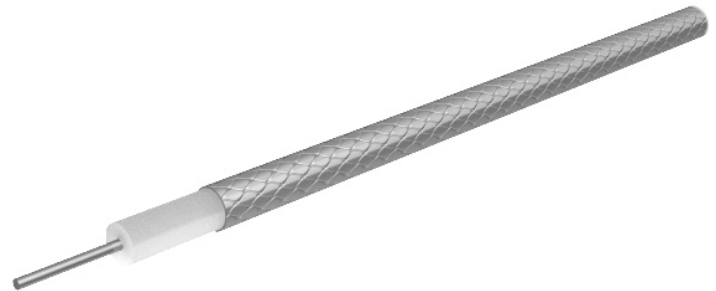
SUCOFORM_86_CT Item: 85030751

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
	dynamic	20 mm

Environmental Data

Temperature range	-65 °C ... +200 °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 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