

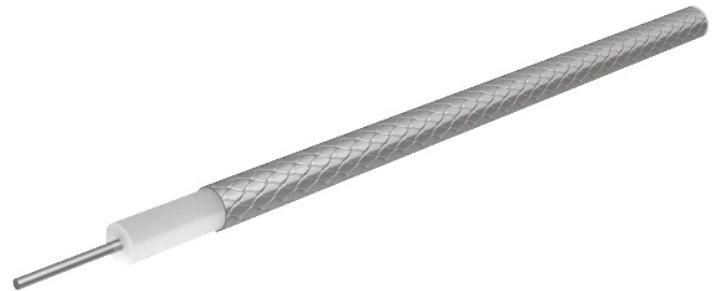
Formable microwave cable

SUCOFORM_47_CU Item: 23033515

Description

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

Non-magnetic, 50 Ohm, 40 GHz, 165°C, ø1.19 mm, no jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	0.31 mm
Dielectric	PTFE (Polytetrafluoroethylene)		0.94 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 100%	1.19 mm

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	40 GHz
Capacitance	95 pF/m
Velocity of signal propagation	71 %
Signal delay	4.7 ns/m
Screening effectiveness	≥ 100 dB (up to 18 GHz)
Operating voltage	≤ 1 kV _{rms} (at sea level)
Test voltage	2 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight		0.55 kg/100 m
Min. bending radius	static	3.18 mm

Environmental Data

Temperature range	-65 °C ... +165 °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	Y2 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 = 1.133

b = 0.0396

f_{max} = 40

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
2,0	1,68	0,512	23
4,0	2,42	0,739	16
6,0	3,01	0,918	13
8,0	3,52	1,073	11
10,0	3,98	1,213	10
12,0	4,4	1,341	9
14,0	4,79	1,461	9
16,0	5,17	1,574	8
18,0	5,52	1,682	8
20,0	5,86	1,786	7
22,0	6,19	1,885	7
24,0	6,5	1,981	7
26,0	6,81	2,075	6
28,0	7,1	2,165	6
30,0	7,39	2,253	6
32,0	7,68	2,340	6
34,0	7,95	2,424	5
36,0	8,22	2,506	5
38,0	8,49	2,587	5
40,0	8,75	2,667	5