

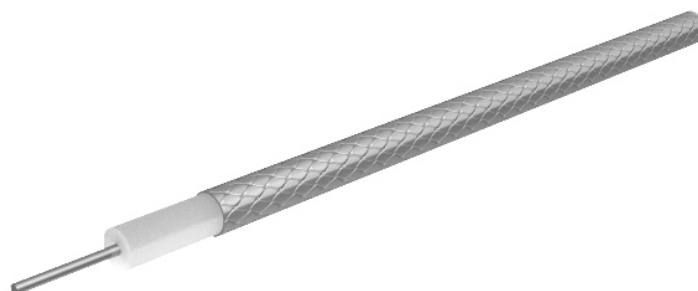
Formable microwave cable

SUCOFORM_250-01 Item: 84007938

Description

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

RG401 dimension, 50 Ohm, 18 GHz, 165°C, ø6.3 mm, no jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	1.67 mm
Dielectric	PTFE (Polytetrafluoroethylene)		5.24 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 100%	6.3 mm

Print: HUBER+SUHNER SUCOFORM 250-01 50 Ohm (PA no.)

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	18 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	≤ 3.5 kV _{rms} (at sea level)
Test voltage	7.5 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	12.5 kg/100 m
Min. bending radius	static 30 mm 120 mm

Environmental Data

Temperature range	-65 °C ... +165 °C
Installation temperature	-20 °C... +60 °C
Flame propagation test	IEC 60332-1, UL 1581 § 1080 (VW-1)
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	Y14 5 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 = 0.21

b = 0.031

 $f_{\max} = 18$

P at 1GHz = 920

Frequency	Nom. attenuation	Nom. attenuation	Max. CW power
(GHz)	(dB / m)	(dB / ft)	(W)
	sea level 25° C ambient temperature	sea level 25° C ambient temperature	sea level 40° C ambient temperature
0,9	0,23	0,069	970
1,8	0,34	0,103	686
2,7	0,43	0,131	560
3,6	0,51	0,155	485
4,5	0,58	0,178	434
5,4	0,66	0,200	396
6,3	0,72	0,220	367
7,2	0,79	0,240	343
8,1	0,85	0,259	323
9,0	0,91	0,277	307
9,9	0,97	0,295	292
10,8	1,02	0,312	280
11,7	1,08	0,329	269
12,6	1,14	0,346	259
13,5	1,19	0,363	250
14,4	1,24	0,379	242
15,3	1,3	0,395	235
16,2	1,35	0,411	229
17,1	1,4	0,426	222
18,0	1,45	0,442	217