Data Sheet

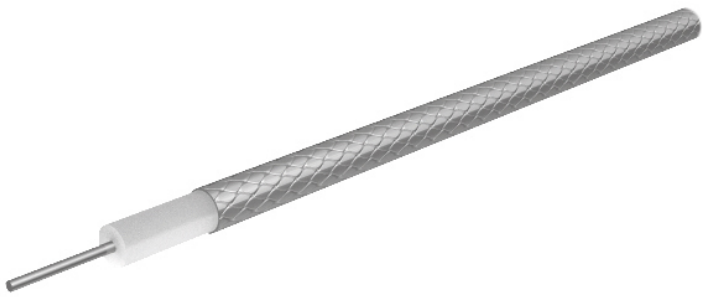
HUBER+SUHNER

Formable microwave cable
SUCOFORM_141_CT Item: 85063282

Description

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

RG402 dimension, phase stable over temperature, 50 Ohm, 30 GHz, 200°C, ø3.58 mm, no jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Aluminium, Copper cladded, Silver plated	Wire	1.15 mm
Dielectric	Low density fluorine polymer		2.95 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 99%	3.58 mm

Print: HUBER+SUHNER SUCOFORM 141 CT 50 Ohm (PA no.)

Electrical Data

Impedance		50 Ω +/- 2
Operating Frequency		30 GHz
Capacitance		80 pF/m
Velocity of signal propagation		83 %
Signal delay		4 ns/m
Screening effectiveness		≥ 100 dB (up to 18 GHz)
Operating voltage		≤ 0.5 kV_{rms} (at sea level)
Test voltage		1.1 kV_{rms} (50 Hz/1 min)
Phase vs Temperature	-55°C... + 125°C	500 ppm

Mechanical Data

Weight		3.3 kg/100 m
Min. bending radius	static	8 mm
	dynamic	40 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	Y25 3mm / 50 Ohm

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Matrix typical Attenuation [formula: (a*f^0.5 + b*f)] and maximum Power CW [formula: (p/f^0.5)]
Coefficients:

a = 0.317	b = 0.032	f_{max} = 30	P at 1GHz = 360

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
1,5	0,44	0,133	294
3,0	0,65	0,197	208
4,5	0,82	0,249	170
6,0	0,97	0,295	147
7,5	1,11	0,338	131
9,0	1,24	0,378	120
10,5	1,36	0,415	111
12,0	1,48	0,452	104
13,5	1,6	0,487	98
15,0	1,71	0,520	93
16,5	1,82	0,553	89
18,0	1,92	0,585	85
19,5	2,02	0,617	82
21,0	2,12	0,648	79
22,5	2,22	0,678	76
24,0	2,32	0,707	73
25,5	2,42	0,737	71
27,0	2,51	0,765	69
28,5	2,6	0,794	67
30,0	2,7	0,822	66