

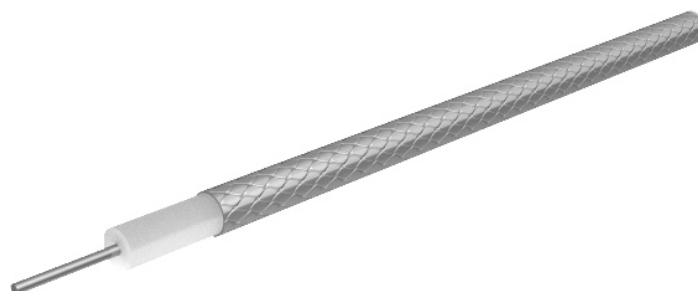
Formable microwave cable

SUCOFORM_141 Item: 22511925

Description

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

RG402 dimension, 50 Ohm, 33 GHz, 165°C, ø3.58 mm, no jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper+Silver plated	Wire	0.94 mm
Dielectric	PTFE (Polytetrafluoroethylene)		2.95 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 99%	3.58 mm

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

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	33 GHz
Capacitance	92 pF/m
Velocity of signal propagation	71 %
Signal delay	4.7 ns/m
Screening effectiveness	≥ 100 dB (up to 18 GHz)
Operating voltage	≤ 1.9 kV _{rms} (at sea level)
Test voltage	5 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight		4 kg/100 m
Min. bending radius	static	8 mm
	repeated (for ≤ 50 bendings)	40 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	Y12 3 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 = 0.355

b = 0.04

f_{max} = 33

P at 1GHz = 425

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
1,65	0,52	0,159	331
3,3	0,78	0,237	234
4,95	0,99	0,301	191
6,6	1,18	0,358	165
8,25	1,35	0,411	148
9,9	1,51	0,461	135
11,55	1,67	0,509	125
13,2	1,82	0,554	117
14,85	1,96	0,598	110
16,5	2,1	0,641	105
18,15	2,24	0,682	100
19,8	2,37	0,723	96
21,45	2,5	0,763	92
23,1	2,63	0,802	88
24,75	2,76	0,840	85
26,4	2,88	0,878	83
28,05	3,0	0,915	80
29,7	3,12	0,952	78
31,35	3,24	0,988	76
33,0	3,36	1,024	74