Data Sheet



Formable microwave cable

Description

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

RG402 dimension, non-magnetic, 50 Ohm, 33 GHz, 165°C, ø3.58

mm, no jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	0.95 mm
Dielectric	PTFE (Polytetrafluoroethylene)		2.95 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 100%	3.58 mm

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

Electrical Data

Impedance $50 \Omega + l - 2$ Operating Frequency33 GHzCapacitance92 pF/mVelocity of signal propagation71 %Signal delay4.7 ns/mScreening effectiveness≥ 100 dB (

Screening effectiveness

Screening voltage

≥ 100 dB (up to 18 GHz)

≤ 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 $-65~^{\circ}\text{C}$... $+165~^{\circ}\text{C}$ Installation temperature $-20~^{\circ}\text{C}$... $+60~^{\circ}\text{C}$

Flame propagation test IEC 60332-1, UL 1581 § 1080 (VW-1)

 Halogen free
 No

 2011/65/EU (RoHS - including
 compliant

 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

Data Sheet



Formable microwave cable SUCOFORM_141_CU Item: 22511635

Matrix typical Attenuation [formula: (a*f^0.5 + b*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

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