

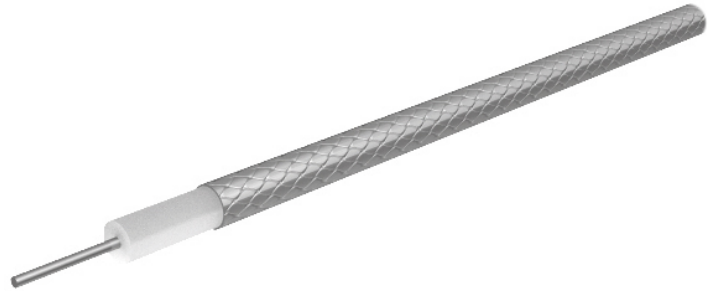
Formable microwave cable

SUCOFORM_86 Item: 22511613

Description

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

RG403 dimension, 50 Ohm, 40 GHz, 165°C, ø2.1 mm, no jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper+Silver plated	Wire	0.53 mm
Dielectric	PTFE (Polytetrafluoroethylene)		1.65 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 100%	2.1 mm

Print: HUBER+SUHNER SUCOFORM 86 50 Ohm (PA no.)

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	≤ 1.5 kV _{rms} (at sea level)
Test voltage	3 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight		1.5 kg/100 m
Min. bending radius	static	6 mm
	repeated (for ≤ 50 bendings)	20 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	Y16 2 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 = 0.6283

b = 0.04

$f_{\max} = 40$

P at 1GHz = 162

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	0,97	0,295	115
4,0	1,42	0,432	81
6,0	1,78	0,542	66
8,0	2,1	0,639	57
10,0	2,39	0,727	51
12,0	2,66	0,810	47
14,0	2,91	0,887	43
16,0	3,15	0,961	41
18,0	3,39	1,032	38
20,0	3,61	1,100	36
22,0	3,83	1,166	35
24,0	4,04	1,231	33
26,0	4,24	1,293	32
28,0	4,44	1,355	31
30,0	4,64	1,415	30
32,0	4,83	1,473	29
34,0	5,02	1,531	28
36,0	5,21	1,588	27
38,0	5,39	1,644	26
40,0	5,57	1,699	26