

Formable microwave cable

SUCOFORM_86_PE Item: 22511631

Description

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

RG403 dimension, 50 Ohm, 40 GHz, 85°C, ø3.2 mm, PE 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
Jacket	PE (Polyethylene)	RAL 3004 - rd	3.2 mm +/- 0.1

Print: HUBER+SUHNER SUCOFORM 86 PE 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		1.9 kg/100 m
Min. bending radius	static	6 mm
	repeated (for ≤ 50 bendings)	20 mm

Environmental Data

Temperature range	-40 °C ... +85 °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 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 = 30

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	21
4,0	1,42	0,432	15
6,0	1,78	0,542	12
8,0	2,1	0,639	11
10,0	2,39	0,727	9
12,0	2,66	0,810	9
14,0	2,91	0,887	8
16,0	3,15	0,961	8
18,0	3,39	1,032	7
20,0	3,61	1,100	7
22,0	3,83	1,166	6
24,0	4,04	1,231	6
26,0	4,24	1,293	6
28,0	4,44	1,355	6
30,0	4,64	1,415	5
32,0	4,83	1,473	5
34,0	5,02	1,531	5
36,0	5,21	1,588	5
38,0	5,39	1,644	5
40,0	5,57	1,699	5