Data Sheet

HUBER+SUHNER

Formable microwave cable
SUCOFORM_86_LSFH Item: 22512147

Description

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

RG403 dimension, 50 Ohm, 40 GHz, 85°C, ø3.2 mm, LSFH 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	LSFH (modified polyethylene)	RAL 9005 - bk	3.2 mm +/- 0.1

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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		2.4 kg/100 m
Min. bending radius	static	6 mm
		20 mm

Environmental Data

Temperature range	-40 °C ... +85 °C
Flame propagation test	IEC 60332-2, UL 1581 § 1100
Halogen free	Yes
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*f^0.5 + b*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

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