

Formable microwave cable

SUCOFORM_47_CU_LSFH

Item: 23035506

Description

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

Non-magnetic, 50 Ohm, 40 GHz, 85°C, ø1.7 mm, LSFH jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	0.31 mm
Dielectric	PTFE (Polytetrafluoroethylene)		0.94 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 100%	1.19 mm
Jacket	LSFH (modified polyethylene)	RAL 9005 - bk	1.7 mm

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 kV _{rms} (at sea level)
Test voltage	2 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	0.75 kg/100 m
Min. bending radius	static 4 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	Y2 1 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 = 1.133

b = 0.0396

 $f_{\max} = 40$

P at 1GHz = 11

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
2,0	1,68	0,512	8
4,0	2,42	0,739	6
6,0	3,01	0,918	4
8,0	3,52	1,073	4
10,0	3,98	1,213	3
12,0	4,4	1,341	3
14,0	4,79	1,461	3
16,0	5,17	1,574	3
18,0	5,52	1,682	3
20,0	5,86	1,786	2
22,0	6,19	1,885	2
24,0	6,5	1,981	2
26,0	6,81	2,075	2
28,0	7,1	2,165	2
30,0	7,39	2,253	2
32,0	7,68	2,340	2
34,0	7,95	2,424	2
36,0	8,22	2,506	2
38,0	8,49	2,587	2
40,0	8,75	2,667	2