

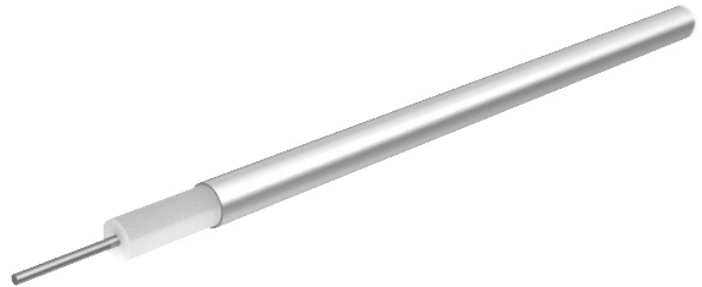
Formable microwave cable

SR_86_AL_TP_M17 Item: 22810167

Description

Semi-rigid: Semi-rigid, formable microwave cables

RG405 dimension, MIL style, 50 Ohm, 40 GHz, 125°C, ø2.2 mm, no jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper+Silver plated	Wire	0.51 mm
Dielectric	PTFE (Polytetrafluoroethylene)		1.68 mm
Outer conductor	Aluminum / TP	Tube, 100%	2.2 mm

Electrical Data

Impedance	50 Ω +/- 1.5
Operating Frequency	40 GHz
Capacitance	105 pF/m
Velocity of signal propagation	69.5 %
Signal delay	4.8 ns/m
Screening effectiveness	≥ 120 dB (up to 18 GHz)
Operating voltage	≤ 1.5 kV _{rms} (at sea level)
Test voltage	5 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	1.19 kg/100 m
Min. bending radius	static 1.78 mm

Environmental Data

Temperature range	-40 °C ... +125 °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	Y3 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 = 0.58454

b = 0.03967

f_{max} = 40

P at 1GHz = 130

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	0.91	0.276	92
4.0	1.33	0.405	65
6.0	1.67	0.509	53
8.0	1.97	0.601	46
10.0	2.25	0.684	41
12.0	2.5	0.762	38
14.0	2.74	0.836	35
16.0	2.97	0.906	33
18.0	3.19	0.973	31
20.0	3.41	1.039	29
22.0	3.61	1.102	28
24.0	3.82	1.163	27
26.0	4.01	1.223	25
28.0	4.2	1.281	25
30.0	4.39	1.339	24
32.0	4.58	1.395	23
34.0	4.76	1.450	22
36.0	4.94	1.504	22
38.0	5.11	1.558	21
40.0	5.28	1.610	21

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