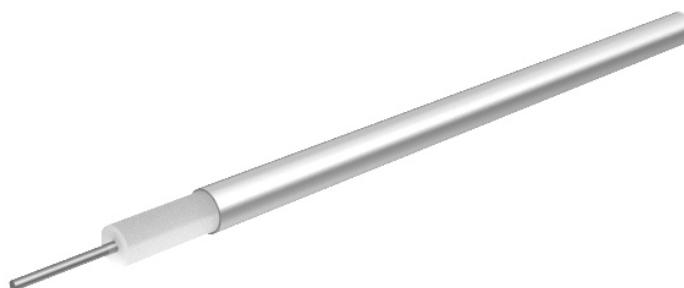


Formable microwave cable SR_86_CT Item: 85075337

Description

Semi-rigid: Semi-rigid, formable microwave cables

RG405 dimension, phase stable over temperature, 50 Ohm, 40 GHz, 200°C, Ø2.2 mm, no jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	0.62 mm
Dielectric	Low density fluorine polymer		1.71 mm
Outer conductor	Aluminum / TP	Tube, 100%	2.2 mm

Electrical Data

Impedance		50 Ω +/- 2
Operating Frequency		40 GHz
Capacitance		92 pF/m
Velocity of signal propagation		80 %
Signal delay		4.2 ns/m
Screening effectiveness		≥ 120 dB (up to 20 GHz)
Phase vs Temperature	0°C... + 85°C	100 ppm

Mechanical Data

Weight		0.93 kg/100 m
Min. bending radius	static	3.18 mm

Environmental Data

Temperature range	-55 °C ... +200 °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	Y21 2 mm / 50 Ohm
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Formable microwave cable

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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 = 0.53

b = 0.019

f_{max} = 40

P at 1GHz = 133

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	0.79	0.240	94
4.0	1.14	0.346	67
6.0	1.41	0.430	54
8.0	1.65	0.503	47
10.0	1.87	0.569	42
12.0	2.06	0.629	38
14.0	2.25	0.685	36
16.0	2.42	0.739	33
18.0	2.59	0.790	31
20.0	2.75	0.838	30
22.0	2.9	0.885	28
24.0	3.05	0.930	27
26.0	3.2	0.974	26
28.0	3.34	1.017	25
30.0	3.47	1.058	24
32.0	3.61	1.099	24
34.0	3.74	1.139	23
36.0	3.86	1.178	22
38.0	3.99	1.216	22
40.0	4.11	1.253	21