

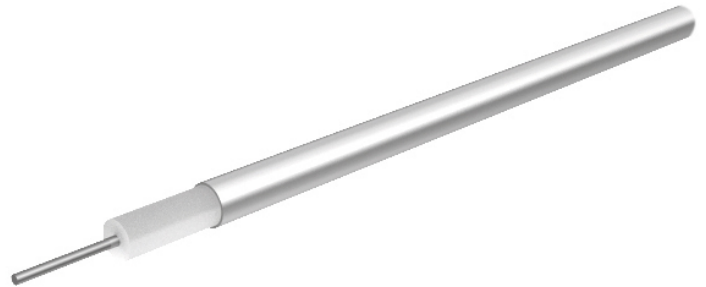
Formable microwave cable

SR_250_M17 Item: 22810701

Description

Semi-rigid: Semi-rigid, formable microwave cables

RG401 dimension, MIL style, 50 Ohm, 18 GHz, 100°C, ø6.35 mm, no jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	1.63 mm
Dielectric	PTFE (Polytetrafluoroethylene)		5.31 mm
Outer conductor	Copper	Tube, 100%	6.35 mm

Electrical Data

Impedance	50 Ω +/- 0.5
Operating Frequency	18 GHz
Capacitance	97.1 pF/m
Velocity of signal propagation	69.5 %
Signal delay	4.8 ns/m
Screening effectiveness	≥ 120 dB (up to 18 GHz)
Operating voltage	≤ 3 kV _{rms} (at sea level)
Test voltage	7.5 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	15.8 kg/100 m
Min. bending radius	static 9.52 mm

Environmental Data

Temperature range	-55 °C ... +100 °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	Y7 5 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 = 0.1836

b = 0.03967

f_{max} = 18

P at 1GHz = 1400

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
0.9	0.21	0.064	1476
1.8	0.32	0.097	1043
2.7	0.41	0.125	852
3.6	0.49	0.150	738
4.5	0.57	0.173	660
5.4	0.64	0.195	602
6.3	0.71	0.217	558
7.2	0.78	0.237	522
8.1	0.84	0.257	492
9.0	0.91	0.277	467
9.9	0.97	0.296	445
10.8	1.03	0.314	426
11.7	1.09	0.333	409
12.6	1.15	0.351	394
13.5	1.21	0.369	381
14.4	1.27	0.386	369
15.3	1.33	0.404	358
16.2	1.38	0.421	348
17.1	1.44	0.438	339
18.0	1.49	0.455	330