

Formable microwave cable SR_118_TP Item: 22820073

Description

Semi-rigid: Semi-rigid, formable microwave cables
50 Ohm, 40 GHz, 125°C, ø2.95 mm, no jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	0.81 mm
Dielectric	PTFE-LD		2.41 mm
Outer conductor	Copper, Tin plated	Tube, 100%	2.95 mm

Electrical Data

Impedance	50 Ω +/- 1.5
Operating Frequency	40 GHz
Capacitance	76.2 pF/m
Velocity of signal propagation	80 %
Signal delay	4.17 ns/m
Screening effectiveness	≥ 120 dB (up to 18 GHz)
Operating voltage	≤ 1.2 kV _{rms} (at sea level)
Test voltage	3.5 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight		3.4 kg/100 m
Min. bending radius	static	9.53 mm

Environmental Data

Temperature range	-55 °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	Y10 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 = 0.3804

b = 0.00791

f_{max} = 40

P at 1GHz = 598

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	0.55	0.169	423
4.0	0.79	0.242	299
6.0	0.98	0.298	244
8.0	1.14	0.347	211
10.0	1.28	0.391	189
12.0	1.41	0.431	173
14.0	1.53	0.468	160
16.0	1.65	0.502	150
18.0	1.76	0.535	141
20.0	1.86	0.567	134
22.0	1.96	0.597	127
24.0	2.05	0.626	122
26.0	2.15	0.654	117
28.0	2.23	0.681	113
30.0	2.32	0.707	109
32.0	2.4	0.733	106
34.0	2.49	0.758	103
36.0	2.57	0.782	100
38.0	2.65	0.806	97
40.0	2.72	0.830	95