

Formable microwave cable

SUCOFORM_122_LA_CU_CMP **Item: 85072331**

Description

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

Non-magnetic, 50 Ohm, 6 GHz, 165°C, ø3.65 mm, FEP jacket,

Plenum rated



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	0.94 mm
Dielectric	PTFE (Polytetrafluoroethylene)		2.65 mm
Outer conductor	Copper, Tin plated	Tin soaked braid	3.1 mm
Jacket	FEP (Fluorinated ethylene propylene)	RAL 9003 - wh	3.65 mm +/- 0.1

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Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	6 GHz
Capacitance	85 pF/m
Signal delay	4.3 ns/m
Screening effectiveness	≥ 1000 dB (up to 18 GHz)
Operating voltage	≤ 1.9 kV _{rms} (at sea level)
Test voltage	5 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight		3.05 kg/100 m
Min. bending radius	static	5 mm
	repeated (for ≤ 15 bendings)	18 mm

Environmental Data

Temperature range	-65 °C ... +165 °C
Installation temperature	-20 °C... +60 °C
Flame propagation test	IEC 60332-1, UL 1581 § 1080 (VW-1), ETL Listed UL444/CMP/FT6
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	Y31 - 122 3mm / 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 = 0.333

b = 0.04

f_{max} = 6

P at 1GHz = 536

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
0,3	0,19	0,059	979
0,6	0,28	0,086	692
0,9	0,35	0,107	565
1,2	0,41	0,126	489
1,5	0,47	0,143	438
1,8	0,52	0,158	400
2,1	0,57	0,173	370
2,4	0,61	0,186	346
2,7	0,66	0,200	326
3,0	0,7	0,212	309
3,3	0,74	0,225	295
3,6	0,78	0,236	282
3,9	0,81	0,248	271
4,2	0,85	0,259	262
4,5	0,89	0,270	253
4,8	0,92	0,281	245
5,1	0,96	0,291	237
5,4	0,99	0,302	231
5,7	1,02	0,312	225
6,0	1,06	0,322	219

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