

Formable microwave cable

SUCOFORM_222_LA_CU_CMP Item: 85071854

Description

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

Non-magnetic, 50 Ohm, 6 GHz, 165°C, Ø6.2 mm, FEP jacket,
Plenum rated



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	1.67 mm
Dielectric	PTFE (Polytetrafluoroethylene)		4.8 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 100%	5.65 mm
Jacket	FEP (Fluorinated ethylene propylene)	RAL 9003 - wh	6.2 mm +/- 0.1

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Electrical Data

Impedance	50 Ω +/- 1
Operating Frequency	6 GHz
Capacitance	83 pF/m
Velocity of signal propagation	76.7 %
Signal delay	4.3 ns/m
Screening effectiveness	≥ 100 dB (up to 18 GHz)
Operating voltage	≤ 3.5 kV _{rms} (at sea level)
Test voltage	5 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight		10.05 kg/100 m
Min. bending radius	static	25 mm
	repeated (for ≤ 15 bendings)	120 mm

Environmental Data

Temperature range	-65 °C ... +165 °C
Installation temperature	-20 °C... +60 °C
Uv resistance test	ISO 4892-2A
Flame propagation test	IEC 60332-2, UL 1581 § 1080 (VW-1), ETL Listed UL444/CMP/FT6
Smoke density test	NFPA-262 (UL910)
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	Y32 - 222 5mm / 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 = 0.199

b = 0.031

 $f_{\max} = 6$

P at 1GHz = 930

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
0,3	0,12	0,036	1698
0,6	0,17	0,053	1201
0,9	0,22	0,066	980
1,2	0,26	0,078	849
1,5	0,29	0,088	759
1,8	0,32	0,098	693
2,1	0,35	0,108	642
2,4	0,38	0,117	600
2,7	0,41	0,125	566
3,0	0,44	0,133	537
3,3	0,46	0,141	512
3,6	0,49	0,149	490
3,9	0,51	0,157	471
4,2	0,54	0,164	454
4,5	0,56	0,171	438
4,8	0,58	0,178	424
5,1	0,61	0,185	412
5,4	0,63	0,192	400
5,7	0,65	0,199	390
6,0	0,67	0,205	380

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