

Formable microwave cable SUCOFORM_141_CU_CMP

Item: 85031886

Description

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

RG402 dimension, non-magnetic, 50 Ohm, 6 GHz, 165°C, Ø4.1 mm, FEP jacket, Plenum rated



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	0.95 mm
Dielectric	PTFE (Polytetrafluoroethylene)		2.95 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 100%	3.58 mm
Jacket	FEP (Fluorinated ethylene propylene)	RAL 9010 - wh	4.1 mm +/- 0.1

Print: HUBER+SUHNER SUCOFORM 141 CU CMP 50 OHM (PA-No.) / CMP / cETLus 191025130GZU-001

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	6 GHz
Capacitance	92 pF/m
Velocity of signal propagation	71 %
Signal delay	4.7 ns/m
Screening effectiveness	≥ 100 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	4.7 kg/100 m
Min. bending radius	static repeated (for ≤ 50 bendings)
	8 mm 40 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
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	Y12 3 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 = 0.355

b = 0.04

 $f_{\max} = 6$

P at 1GHz = 560

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	0,21	0,063	1022
0,6	0,3	0,091	723
0,9	0,37	0,114	590
1,2	0,44	0,133	511
1,5	0,49	0,151	457
1,8	0,55	0,167	417
2,1	0,6	0,182	386
2,4	0,65	0,197	361
2,7	0,69	0,211	341
3,0	0,73	0,224	323
3,3	0,78	0,237	308
3,6	0,82	0,249	295
3,9	0,86	0,261	284
4,2	0,9	0,273	273
4,5	0,93	0,284	264
4,8	0,97	0,296	256
5,1	1,01	0,307	248
5,4	1,04	0,317	241
5,7	1,08	0,328	235
6,0	1,11	0,338	229

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