

Coaxial Cable SUCOFORM_86

Description

SUCOFORM, the handformable microwave cable



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper+Silver plated	Wire	0.53 mm
Dielectric	PTFE (Polytetrafluoroethylene)		1.65 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 100%	2.1 mm

Print: HUBER+SUHNER SUCOFORM 86 50 Ohm (PA no.)

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	40 GHz
Capacitance	95 pF/m
Velocity of signal propagation	71 %
Signal delay	4.7 ns/m
Insulation resistance	≥ 1 x 10 ⁸ MΩm
Min. screening effectiveness	≥ 100 dB (up to 18 GHz)
Max. operating voltage	≤ 1.5 kV _{rms} (at sea level)
Test voltage	3 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight		1.5 kg/100 m
Min. bending radius	static	6 mm
	repeated (for ≤ 50 bendings)	20 mm

Environmental Data

Temperature range	-65 °C... +165 °C
Installation temperature	-20 °C... +60 °C
Flammability	IEC 60332-1, UL 1581 § 1080 (VW-1),
2011/95/EC (RoHS)	compliant

Additional Information

Ordering Information

Order as SUCOFORM_86

Remarks

(For details refer to the HUBER+SUHNER MICROWAVE CABLES AND ASSEMBLIES GENERAL CATALOGUE or contact your nearest HUBER+SUHNER partner)

Suitable Connectors

Cable group Y16 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 = 0.6283

b = 0.04

f_{max} = 40

P at 1GHz = 162

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 (watt) sea level 40° C ambient temperature
2,0	0,97	0,295	115
4,0	1,42	0,432	81
6,0	1,78	0,542	66
8,0	2,1	0,639	57
10,0	2,39	0,727	51
12,0	2,66	0,810	47
14,0	2,91	0,887	43
16,0	3,15	0,961	41
18,0	3,39	1,032	38
20,0	3,61	1,100	36
22,0	3,83	1,166	35
24,0	4,04	1,231	33
26,0	4,24	1,293	32
28,0	4,44	1,355	31
30,0	4,64	1,415	30
32,0	4,83	1,473	29
34,0	5,02	1,531	28
36,0	5,21	1,588	27
38,0	5,39	1,644	26
40,0	5,57	1,699	26