

Coaxial Cable SUCOFORM_86_CT

Description

SUCOFORM, the handformable microwave cable



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	0.62 mm
Dielectric	Low density fluorine polymer		1.74 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 100%	2.15 mm

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

Electrical Data

Impedance		50 Ω +/- 2
Operating Frequency		20 GHz
Capacitance		83.5 pF/m
Velocity of signal propagation		80 %
Signal delay		4.2 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)
Phase vs Temperature	-55°C... + 125°C	250 ppm
Phase vs Bending		5 °/GHz

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... +200 °C
Installation temperature	-20 °C... +60 °C
2011/95/EC (RoHS)	compliant

Additional Information

Ordering Information

Order as SUCOFORM_86_CT

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 U99 Customer Specific

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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 = 0.5476

b = 0.0477

f_{max} = 20

P at 1GHz = 165

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
1.0	0.6	0.181	165
2.0	0.87	0.265	117
3.0	1.09	0.333	95
4.0	1.29	0.392	83
5.0	1.46	0.446	74
6.0	1.63	0.496	67
7.0	1.78	0.543	62
8.0	1.93	0.588	58
9.0	2.07	0.632	55
10.0	2.21	0.673	52
11.0	2.34	0.713	50
12.0	2.47	0.753	48
13.0	2.59	0.791	46
14.0	2.72	0.828	44
15.0	2.84	0.864	43
16.0	2.95	0.900	41
17.0	3.07	0.935	40
18.0	3.18	0.970	39
19.0	3.29	1.004	38
20.0	3.4	1.037	37