

Coaxial Cable: SUCOFORM_141_CU



Description

SUCOFORM, the handformable microwave cable

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	0.95 mm
Dielectric	PTFE		2.95 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 100 %	3.58 mm

Electrical Data

Impedance	50	Ω +/- 2
Max. operating frequency	33	GHz
Capacitance	92	pF/m
Velocity of signal propagation	71	%
Signal delay	4.7	ns/m
Insulation resistance	$\geq 1 \times 10^8$	M Ω m
Min. screening effectiveness	>100	dB (up to 18 GHz)
Max. operating voltage	1.9	kV _{rms} (at sea level)
Test voltage	5	kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	4	kg/100 m
Min. bending radius	static	8 mm
	repeated (for max. 50 bendings)	40 mm

Environmental Data

Temperature range	-65 °C... + 165 °C
Installation temperature	-20 °C... + 60 °C
Flammability 2002/95/EC (RoHS)	IEC 60332-1, UL 1581 - §1080 (VW-1) compliant

Cable group	crimped (Y5)
	clamped (Y12)
	soldered —

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Matrix **Attenuation** [formula: $(a \cdot f^{0.5} + b \cdot f)$] and **Power CW** [formula: $(p \cdot f^{0.5})$]

Coefficients:

a=	0.355	b=	0.04	f _{max} =	33	p _{at} 1GHz =	425
	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
	1.7		0.53		0.162		326
	3.3		0.78		0.238		234
	5.0		0.99		0.302		190
	6.6		1.18		0.360		165
	8.3		1.35		0.411		148
	9.9		1.51		0.460		135
	11.6		1.67		0.509		125
	13.2		1.82		0.555		117
	14.9		1.97		0.600		110
	16.5		2.10		0.640		105
	18.2		2.24		0.683		100
	19.8		2.37		0.722		96
	21.5		2.51		0.765		92
	23.1		2.63		0.802		88
	24.8		2.76		0.841		85
	26.4		2.88		0.878		83
	28.1		3.01		0.917		80
	29.7		3.12		0.951		78
	31.4		3.25		0.991		76
	33.0		3.36		1.024		74

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