

HUBER+SUHNER® DATA SHEET

Coaxial Cable: SUCOFORM_250-01



Description

SUCOFORM, the handformable microwave cable

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	1.67 mm
Dielectric	PTFE		5.24 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 100 %	6.3 mm
Print	HUBER+SUHNER SUCOFORM 250-01 50 Ohm (PA no.)		

Electrical Data

Impedance	50 Ω +/- 2
Max. operating frequency	18 GHz
Capacitance	95 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	3.5 kV _{rms} (at sea level)
Test voltage	7.5 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	12.5 kg/100 m
Min. bending radius	static 30 mm
	repeated (for max. 50 bendings) 120 mm

Environmental Data

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

Ordering Information

Order as	SUCOFORM_250-01
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Additional Information

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	crimped (Y7)
	clamped —
	soldered —

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

Coefficients:

a=	0.21	b=	0.031	f _{max} =	18	p _{at} 1GHz =	920
	Frequency		Nom. attenuation		Nom. attenuation		Max. CW power
	(GHz)		(dB / m)		(dB / ft)		(watt)
			sea level 25° C ambient temperature		sea level 25° C ambient temperature		sea level 40° C ambient temperature
	0.9		0.23		0.070		970
	1.8		0.34		0.104		686
	2.7		0.43		0.131		560
	3.6		0.51		0.155		485
	4.5		0.58		0.177		434
	5.4		0.66		0.201		396
	6.3		0.72		0.219		367
	7.2		0.79		0.241		343
	8.1		0.85		0.259		323
	9.0		0.91		0.277		307
	9.9		0.97		0.296		292
	10.8		1.02		0.311		280
	11.7		1.08		0.329		269
	12.6		1.14		0.347		259
	13.5		1.19		0.363		250
	14.4		1.24		0.378		242
	15.3		1.30		0.396		235
	16.2		1.35		0.411		229
	17.1		1.40		0.427		222
	18.0		1.45		0.442		217

HUBER+SUHNER is certified according to ISO 9001 and ISO 14001

WAIVER!

It is exclusively in written agreements that we provide our customers with warrants and representations as to the technical specifications and/or the fitness for any particular purpose. The facts and figures contained herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only.



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