

HUBER+SUHNER® DATA SHEET

Coaxial Cable: SUCOFORM_141_CU

Rev.: I



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
Print	HUBER+SUHNER SUCOFORM 141 Cu 50 Ohm (PA no.)		

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

Ordering Information

Order as SUCOFORM_141_CU

Additional Information

Remarks

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

Cable group Y12 3 mm / 50 Ohm

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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		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
	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

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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