

HUBER+SUHNER® DATA SHEET

Coaxial Cable: SUCOFORM_141_PE



Description

SUCOFORM, the handformable microwave cable with protective jacket

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper+Silver plated	Wire	0.95 mm
Dielectric	PTFE		2.95 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 100 %	3.58 mm
Jacket	PE	RAL 3004 - rd	4.6 mm +/- 0.1
Print	HUBER+SUHNER SUCOFORM 141 PE 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	$\geq 1 \times$	$10^8 \text{ M}\Omega\text{m}$
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	4.7	kg/100 m
Min. bending radius	static	8 mm
	repeated (for max. 50 bendings)	40 mm

Environmental Data

Temperature range	-40 °C... + 85 °C
Installation temperature	-20 °C... + 60 °C
2002/95/EC (RoHS)	compliant

Ordering Information

Order as	SUCOFORM_141_PE
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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 (Y5)
	clamped (Y12)
	soldered —

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Rev.: I



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 =	90
	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		69
	3.3		0.78		0.238		50
	5.0		0.99		0.302		40
	6.6		1.18		0.360		35
	8.3		1.35		0.411		31
	9.9		1.51		0.460		29
	11.6		1.67		0.509		26
	13.2		1.82		0.555		25
	14.9		1.97		0.600		23
	16.5		2.10		0.640		22
	18.2		2.24		0.683		21
	19.8		2.37		0.722		20
	21.5		2.51		0.765		19
	23.1		2.63		0.802		19
	24.8		2.76		0.841		18
	26.4		2.88		0.878		18
	28.1		3.01		0.917		17
	29.7		3.12		0.951		17
	31.4		3.25		0.991		16
	33.0		3.36		1.024		16

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

WAIVER!

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