

HUBER+SUHNER® DATA SHEET

Coaxial Cable: SUCOFORM_86



Description

SUCOFORM, the handformable microwave cable

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper+Silver plated	Wire	0.53 mm
Dielectric	PTFE		1.65 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 100 %	2.1 mm
Print	HUBER+SUHNER SUCOFORM 86 50 Ohm (PA no.)		

Electrical Data

Impedance	50	Ω +/- 2
Max. operating frequency	40	GHz
Capacitance	95	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	1.5	kV _{rms} (at sea level)
Test voltage	3	kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	1.5	kg/100 m
Min. bending radius	static	6 mm
	repeated (for max. 50 bendings)	20 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_86
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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)

Cable group	Y16 2 mm / 50 Ohm
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Matrix **Attenuation** [formula: $(a \cdot f^{0.5} + b \cdot f)$] **and Power CW** [formula: $(p \cdot f / f^{0.5})$]

Coefficients:

a=	0.6283	b=	0.04	f _{max} =	40	p _{at} 1GHz =	162
	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
	2.0		0.97		0.296		115
	4.0		1.42		0.433		81
	6.0		1.78		0.543		66
	8.0		2.10		0.640		57
	10.0		2.39		0.728		51
	12.0		2.66		0.811		47
	14.0		2.91		0.887		43
	16.0		3.15		0.960		41
	18.0		3.39		1.033		38
	20.0		3.61		1.100		36
	22.0		3.83		1.167		35
	24.0		4.04		1.231		33
	26.0		4.24		1.292		32
	28.0		4.44		1.353		31
	30.0		4.64		1.414		30
	32.0		4.83		1.472		29
	34.0		5.02		1.530		28
	36.0		5.21		1.588		27
	38.0		5.39		1.643		26
	40.0		5.57		1.698		26

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

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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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