

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 (Polytetrafluorethyln.)		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	18	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)

Ordering Information

Order as SUCOFORM_86

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 Y3 / Y11

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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=	0.6283	b=	0.04	f _{max} =	18	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
	0.9		0.63		0.192		171
	1.8		0.91		0.277		121
	2.7		1.14		0.347		99
	3.6		1.34		0.408		85
	4.5		1.51		0.460		76
	5.4		1.68		0.512		70
	6.3		1.83		0.558		65
	7.2		1.97		0.600		60
	8.1		2.11		0.643		57
	9.0		2.24		0.683		54
	9.9		2.37		0.722		51
	10.8		2.50		0.762		49
	11.7		2.62		0.799		47
	12.6		2.73		0.832		46
	13.5		2.85		0.869		44
	14.4		2.96		0.902		43
	15.3		3.07		0.936		41
	16.2		3.18		0.969		40
	17.1		3.28		1.000		39
	18.0		3.39		1.033		38

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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