



# 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	$\Omega$ +/- 2
Max. operating frequency	40	GHz
Capacitance	95	pF/m
Velocity of signal propagation	71	%
Signal delay	4.7	ns/m
Insulation resistance	$\geq 1 \times 10^8$	M $\Omega$ m
Min. screening effectiveness	> 100	dB (up to 18 GHz)
Max. operating voltage	1.5	kV <sub>rms</sub> (at sea level)
Test voltage	3	kV <sub>rms</sub> (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	-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_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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Rev.: K

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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=	0.6283	b=	0.04	f <sub>max</sub> =	40	p <sub>at</sub> 1GHz=	162
Frequency (GHz)		Nom. attenuation (dB / m) sea level 25° C ambient temperature		Nom. attenuation (dB / ft) sea level 25° C ambient temperature		Max. CW power (watt) 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

## 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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