

# HUBER+SUHNER® DATA SHEET

## Coaxial Cable: SUCOFORM\_86\_75



### Description

SUCOFORM, the handformable microwave cable

### Technical Data

#### Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper+Silver plated	Wire	0.29 mm
Dielectric	PTFE		1.65 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 100 %	2.1 mm
Print	HUBER+SUHNER SUCOFORM 86 75 Ohm (PA no.)		

#### Electrical Data

Impedance	75	$\Omega$ +/- 3
Max. operating frequency	4	GHz
Capacitance	62	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 4 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	1.4	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 2002/95/EC (RoHS)	IEC 60332-1, UL 1581 - §1080 (VW-1) compliant

#### Ordering Information

Order as SUCOFORM\_86\_75

#### 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 (Y4)
	clamped —
	soldered —

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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=	0.671	b=	0.0672	f <sub>max.</sub> =	4	p <sub>at</sub> 1GHz =	120
	<b>Frequency</b>		<b>Nom. attenuation</b>		<b>Nom. attenuation</b>		<b>Max. CW power</b>
	<b>(GHz)</b>		<b>(dB / m)</b>		<b>(dB / ft)</b>		<b>(watt)</b>
			sea level 25° C ambient temperature		sea level 25° C ambient temperature		sea level 40° C ambient temperature
	0.2		0.31		0.094		268
	0.4		0.45		0.137		190
	0.6		0.56		0.171		155
	0.8		0.65		0.198		134
	1.0		0.74		0.226		120
	1.2		0.82		0.250		110
	1.4		0.89		0.271		101
	1.6		0.96		0.293		95
	1.8		1.02		0.311		89
	2.0		1.08		0.329		85
	2.2		1.14		0.347		81
	2.4		1.20		0.366		77
	2.6		1.26		0.384		74
	2.8		1.31		0.399		72
	3.0		1.36		0.415		69
	3.2		1.42		0.433		67
	3.4		1.47		0.448		65
	3.6		1.52		0.463		63
	3.8		1.56		0.475		62
	4.0		1.61		0.491		60

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

**WAIVER!**

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