

# HUBER+SUHNER® DATA SHEET

## Coaxial Cable: SUCOFORM\_113\_CU\_FEP



### Description

SUCOFORM, the handformable microwave cable with protective jacket

### Technical Data

#### Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	0.7 mm
Dielectric	PTFE		2.2 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 100 %	2.8 mm
Jacket	FEP	RAL 3020 - rd	3.2 mm
Print	HUBER+SUHNER SUCOFORM 113 CU FEP 50 Ohm (PA no.)		

#### Electrical Data

Impedance	50	$\Omega$ +/- 2
Max. operating frequency	18	GHz
Capacitance	92	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 6 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	3.5	kg/100 m
Min. bending radius	static	8 mm
	repeated (for max. 50 bendings)	30 mm

#### Environmental Data

Temperature range	-65 °C... + 165 °C
Flammability 2002/95/EC (RoHS)	IEC 60332-1, UL 1581 § 1080 (VW-1) compliant

#### Ordering Information

Order as SUCOFORM\_113\_CU\_FEP

#### 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	—
	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=	0.5105	b=	0.0361	f <sub>max</sub> =	18	p <sub>at</sub> 1GHz =	199
	<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
	0.9		0.52		0.158		210
	1.8		0.75		0.229		148
	2.7		0.94		0.286		121
	3.6		1.10		0.335		105
	4.5		1.25		0.381		94
	5.4		1.38		0.421		86
	6.3		1.51		0.460		79
	7.2		1.63		0.497		74
	8.1		1.75		0.533		70
	9.0		1.86		0.567		66
	9.9		1.96		0.597		63
	10.8		2.07		0.631		61
	11.7		2.17		0.661		58
	12.6		2.27		0.692		56
	13.5		2.36		0.719		54
	14.4		2.46		0.750		52
	15.3		2.55		0.777		51
	16.2		2.64		0.805		49
	17.1		2.73		0.832		48
	18.0		2.82		0.859		47

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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