

# HUBER+SUHNER® DATA SHEET

## Coaxial Cable: SUCOFORM\_141\_CU\_PE



### Description

SUCOFORM, the handformable microwave cable with protective jacket

### Technical Data

#### Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	0.95 mm
Dielectric	PTFE (Polytetrafluoroethylene)		2.95 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 100 %	3.58 mm
Jacket	PE (Polyethylene)	RAL 3004 - rd	4.6 mm +/- 0.1
Print	HUBER+SUHNER SUCOFORM 141 Cu PE 50 Ohm (PA no.)		

#### Electrical Data

Impedance	50	$\Omega$ +/- 2
Max. operating frequency	33	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 18 GHz)
Max. operating voltage	1.9	kV <sub>rms</sub> (at sea level)
Test voltage	5	kV <sub>rms</sub> (50 Hz/1 min)

#### Mechanical Data

Weight	4.7	kg/100 m
Min. bending radius	static	8 mm
	repeated (for max. 50 bendings)	40 mm

#### Environmental Data

Temperature range	-40 °C... + 85 °C
Installation temperature	-20 °C... + 60 °C
2002/95/EC (RoHS)	compliant

#### Ordering Information

Order as SUCOFORM\_141\_CU\_PE

#### 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** Y12 3 mm / 50 Ohm

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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=	0.355	b=	0.04	f <sub>max.</sub> =	33	p <sub>at</sub> 1GHz =	90
	<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
	1.7		0.53		0.162		69
	3.3		0.78		0.238		50
	5.0		0.99		0.302		40
	6.6		1.18		0.360		35
	8.3		1.35		0.411		31
	9.9		1.51		0.460		29
	11.6		1.67		0.509		26
	13.2		1.82		0.555		25
	14.9		1.97		0.600		23
	16.5		2.10		0.640		22
	18.2		2.24		0.683		21
	19.8		2.37		0.722		20
	21.5		2.51		0.765		19
	23.1		2.63		0.802		19
	24.8		2.76		0.841		18
	26.4		2.88		0.878		18
	28.1		3.01		0.917		17
	29.7		3.12		0.951		17
	31.4		3.25		0.991		16
	33.0		3.36		1.024		16

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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