

HUBER+SUHNER® DATA SHEET

Coaxial Cable: SUCOFORM_47_CU



Description

SUCOFORM, the handformable microwave cable

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	0.31 mm
Dielectric	PTFE		0.94 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 100 %	1.19 mm

Electrical Data

Impedance	50	Ω +/- 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 Ω m
Min. screening effectiveness	>100	dB (up to 18 GHz)
Max. operating voltage	1	kV _{rms} (at sea level)
Test voltage	2	kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	0.55	kg/100 m
Min. bending radius	static	3.18 mm

Environmental Data

Temperature range	-65 °C... + 165 °C
Installation temperature	-20 °C... + 60 °C
2002/95/EC (RoHS)	compliant

Ordering Information

Order as	SUCOFORM_47_CU
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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)

Suitable Connectors

Cable group	crimped (Y2)
	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=	1.117	b=	0.03891	f _{max.} =	40	p _{at} 1GHz =	32
	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
	2.0		1.66		0.506		23
	4.0		2.39		0.728		16
	6.0		2.97		0.905		13
	8.0		3.47		1.058		11
	10.0		3.92		1.195		10
	12.0		4.34		1.323		9
	14.0		4.72		1.439		9
	16.0		5.09		1.551		8
	18.0		5.44		1.658		8
	20.0		5.77		1.759		7
	22.0		6.10		1.859		7
	24.0		6.41		1.954		7
	26.0		6.71		2.045		6
	28.0		7.00		2.133		6
	30.0		7.29		2.222		6
	32.0		7.56		2.304		6
	34.0		7.84		2.390		5
	36.0		8.10		2.469		5
	38.0		8.36		2.548		5
	40.0		8.62		2.627		5

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

WAIVER!

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