

HUBER+SUHNER® DATA SHEET

Coaxial Cable: SUCOFORM_86_PE



Description

SUCOFORM, the handformable microwave cable with protective jacket

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
Jacket	PE	RAL 3004 - rd	3.2 mm +/- 0.1
Print	HUBER+SUHNER SUCOFORM 86 PE 50 Ohm (PA no.)		

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	$\geq 1 \times$	$10^8 \text{ M}\Omega\text{m}$
Min. screening effectiveness	>100	dB (up to 18 GHz)
Max. operating voltage	1.5	kV _{rms} (at sea level)
Test voltage	3	kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	1.9	kg/100 m
Min. bending radius	static	6 mm
	repeated (for max. 50 bendings)	20 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_86_PE
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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 (Y3)
	clamped (Y11)
	soldered —

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Matrix **Attenuation** [formula: $(a \cdot f^{0.5} + b \cdot f)$] **and Power CW** [formula: $(p \cdot f / f^{0.5})$]

Coefficients:

a=	0.6283	b=	0.04	f _{max} =	40	p _{at} 1GHz =	30
	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		0.97		0.296		21
	4.0		1.42		0.433		15
	6.0		1.78		0.543		12
	8.0		2.10		0.640		11
	10.0		2.39		0.728		9
	12.0		2.66		0.811		9
	14.0		2.91		0.887		8
	16.0		3.15		0.960		8
	18.0		3.39		1.033		7
	20.0		3.61		1.100		7
	22.0		3.83		1.167		6
	24.0		4.04		1.231		6
	26.0		4.24		1.292		6
	28.0		4.44		1.353		6
	30.0		4.64		1.414		5
	32.0		4.83		1.472		5
	34.0		5.02		1.530		5
	36.0		5.21		1.588		5
	38.0		5.39		1.643		5
	40.0		5.57		1.698		5

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

WAIVER!

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