

HUBER+SUHNER® DATA SHEET

Coaxial Cable: SUCOFORM_86_75_FEP



Description

SUCOFORM, the handformable microwave cable with protective jacket

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
Jacket	FEP	RAL 3020 - rd	2.5 mm +/- 0.1
Print	HUBER+SUHNER SUCOFORM 86 75 FEP 75 Ohm (Pa no.)		

Electrical Data

Impedance	75	Ω +/- 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 Ω m
Min. screening effectiveness	>100	dB (up to 4 GHz)
Max. operating voltage	1.5	kV _{rms} (at sea level)
Test voltage	3	kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	1.7	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	IEC 60332-1, UL 1581 § 1080 (VW-1)
2002/95/EC (RoHS)	compliant

Ordering Information

Order as	SUCOFORM_86_75_FEP
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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 (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 _{max} =	4	p _{at} 1GHz =	130
	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
	0.2		0.31		0.094		291
	0.4		0.45		0.137		206
	0.6		0.56		0.171		168
	0.8		0.65		0.198		145
	1.0		0.74		0.226		130
	1.2		0.82		0.250		119
	1.4		0.89		0.271		110
	1.6		0.96		0.293		103
	1.8		1.02		0.311		97
	2.0		1.08		0.329		92
	2.2		1.14		0.347		88
	2.4		1.20		0.366		84
	2.6		1.26		0.384		81
	2.8		1.31		0.399		78
	3.0		1.36		0.415		75
	3.2		1.42		0.433		73
	3.4		1.47		0.448		71
	3.6		1.52		0.463		69
	3.8		1.56		0.475		67
	4.0		1.61		0.491		65

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

WAIVER!

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