

HUBER+SUHNER® DATA SHEET

Coaxial Cable: SUCOFORM_86_FEP



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 (Polytetrafluoroethylene)		1.65 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 100 %	2.1 mm
Jacket	FEP (Fluorinated ethylene propylene)	RAL 3027 - rd	2.5 mm +/- 0.1
Print	HUBER+SUHNER SUCOFORM 86 FEP 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	$\geq 1 \times 10^8$ M Ω 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	1.8 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_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)

Cable group	Y16 2 mm / 50 Ohm
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Rev.: M



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

Coefficients:

a=	0.6283	b=	0.04	f _{max} =	40	p _{at} 1GHz =	280
	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		198
	4.0		1.42		0.433		140
	6.0		1.78		0.543		114
	8.0		2.10		0.640		99
	10.0		2.39		0.728		89
	12.0		2.66		0.811		81
	14.0		2.91		0.887		75
	16.0		3.15		0.960		70
	18.0		3.39		1.033		66
	20.0		3.61		1.100		63
	22.0		3.83		1.167		60
	24.0		4.04		1.231		57
	26.0		4.24		1.292		55
	28.0		4.44		1.353		53
	30.0		4.64		1.414		51
	32.0		4.83		1.472		49
	34.0		5.02		1.530		48
	36.0		5.21		1.588		47
	38.0		5.39		1.643		45
	40.0		5.57		1.698		44

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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