

HUBER+SUHNER® DATA SHEET

Coaxial Cable: SUCOFORM_250-01_FEP



Description

SUCOFORM, the handformable microwave cable with protective jacket

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	1.67 mm
Dielectric	PTFE		5.24 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 100 %	6.3 mm
Jacket	FEP	RAL 3020 - rd	6.8 mm +/- 0.1
Print	HUBER+SUHNER SUCOFORM 250-01 FEP 50 Ohm (PA no.)		

Electrical Data

Impedance	50 Ω +/- 2
Max. operating frequency	18 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	3.5 kV _{rms} (at sea level)
Test voltage	7.5 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	13.8 kg/100 m
Min. bending radius	static 30 mm
	repeated (for max. 50 bendings) 120 mm

Environmental Data

Temperature range	-55 °C... + 165 °C
Flammability	IEC 60332-1, UL 1581 - §1080 (VW-1)

Ordering Information

Order as	SUCOFORM_250-01_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	Y7
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Rev.: D

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

Coefficients:

a=	0.21	b=	0.031	f _{max.} =	18	p _{at} 1GHz =	1000
	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
	0.9		0.23		0.070		1054
	1.8		0.34		0.104		745
	2.7		0.43		0.131		609
	3.6		0.51		0.155		527
	4.5		0.58		0.177		471
	5.4		0.66		0.201		430
	6.3		0.72		0.219		398
	7.2		0.79		0.241		373
	8.1		0.85		0.259		351
	9.0		0.91		0.277		333
	9.9		0.97		0.296		318
	10.8		1.02		0.311		304
	11.7		1.08		0.329		292
	12.6		1.14		0.347		282
	13.5		1.19		0.363		272
	14.4		1.24		0.378		264
	15.3		1.30		0.396		256
	16.2		1.35		0.411		248
	17.1		1.40		0.427		242
	18.0		1.45		0.442		236

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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