

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	$\geq 1 \times 10^8$	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	1.9	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

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 —

HUBER+SUHNER® DATA SHEET

Coaxial Cable: SUCOFORM_86_PE



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 =	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!

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.



HUBER+SUHNER AG
RF Industrial
9100 Herisau, Switzerland
 Phone +41 (0)71 353 41 11
 Fax +41 (0)71 353 45 90
 www.hubersuhner.com

HUBER+SUHNER – Excellence in Connectivity Solutions