

HUBER+SUHNER® DATA SHEET

Coaxial Cable: SUCOFORM_141_75_FEP



Description

SUCOFORM, the handformable microwave cable with protective jacket

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper+Silver plated	Wire	0.52 mm
Dielectric	PTFE		2.95 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 100 %	3.58 mm
Jacket	FEP	RAL 3020 - rd	4.1 mm +/- 0.1
Print	HUBER+SUHNER SUCOFORM 141 75 FEP 75 Ohm (PA no.)		

Electrical Data

Impedance	75	Ω +/- 2
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	1.9	kV _{rms} (at sea level)
Test voltage	5	kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	4.5	kg/100 m
Min. bending radius	static	8 mm
	repeated (for max. 50 bendings)	40 mm

Environmental Data

Temperature range	-65 °C... + 165 °C
Installation temperature	-20 °C... + 60 °C
Flammability 2002/95/EC (RoHS)	IEC 60332-1, UL 1581 - §1080 (VW-1) compliant

Ordering Information

Order as SUCOFORM_141_75_FEP

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 (Y6)
	clamped —
	soldered —

HUBER+SUHNER® DATA SHEET

Coaxial Cable: SUCOFORM_141_75_FEP



Rev.: K

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

Coefficients:

a=	0.4457	b=	0.01086	f _{max} =	4	p _{at} 1GHz =	426
	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		0.20		0.061		953
	0.4		0.29		0.088		674
	0.6		0.35		0.107		550
	0.8		0.41		0.125		476
	1.0		0.46		0.140		426
	1.2		0.50		0.152		389
	1.4		0.54		0.165		360
	1.6		0.58		0.177		337
	1.8		0.62		0.189		318
	2.0		0.65		0.198		301
	2.2		0.68		0.207		287
	2.4		0.72		0.219		275
	2.6		0.75		0.229		264
	2.8		0.78		0.238		255
	3.0		0.80		0.244		246
	3.2		0.83		0.253		238
	3.4		0.86		0.262		231
	3.6		0.88		0.268		225
	3.8		0.91		0.277		219
	4.0		0.93		0.283		213

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