



SUHNER® MICROWAVE CABLE DATA SHEET

TYPE SUCOFORM_141_75_FEP

SUCOFORM, the handformable microwave cable with protective jacket

Cable Design

	Material	Detail	Diameter
Centre conductor:	<i>Steel: Copper+Silver Plated</i>	<i>Wire</i>	0.52 mm
Dielectric:	<i>PTFE (Polytetrafluorethyln.)</i>		2.95 mm
1. Outer conductor:	<i>Copper: Tin Plated</i>	<i>Tin soaked braid</i>	3.58 mm
Jacket:	<i>FEP (Fluorethylene Prop.)</i>	<i>RAL 3027 - rd</i>	4.1 mm
Print:	<i>HUBER+SUHNER SUCOFORM 141 75 FEP 75 Ohm (PA no.)</i>		

Electrical Data

Impedance:	75	Ω
Max. operating frequency:	4	GHz
Capacitance:	62	pF / m
Velocity of signal propagation:	71	%
Signal delay:	4.7	ns / m
Min. screening effectiveness:	> 100	dB (up to 4 GHz)
Max. operating voltage:	1.9	kV _{rms} (at sea level)

General Data

Temperature range:	-55 °C...+ 165 °C	
Weight:	4.5 kg / 100 m	
Min. bending radius :	static	8 mm
	repeated (for max. 50 bendings)	40 mm

Suitable Connectors

Cable group *Y6*
(for details refer to the "SUHNER Microwave Cables and Assemblies General Catalogue" or contact you nearest HUBER+SUHNER partner)

Notes

Order as **SUCOFORM_141_75_FEP**



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

Coefficients:

a= 0.4457

b= 0.01086

f_{max} = 4

p_{at 1GHz} = 426

Frequency (GHz)	Nom. attenuation (dB / m) sea level 25° C ambient temperature	Nom. attenuation (dB / ft) sea level 25° C ambient temperature	Max. CW power (watt) sea level 40° C ambient temperature
0.20	0.20	0.061	953
0.40	0.29	0.088	674
0.60	0.35	0.107	550
0.80	0.41	0.125	476
1.00	0.46	0.140	426
1.20	0.50	0.152	389
1.40	0.54	0.165	360
1.60	0.58	0.177	337
1.80	0.62	0.189	318
2.00	0.65	0.198	301
2.20	0.68	0.207	287
2.40	0.72	0.219	275
2.60	0.75	0.229	264
2.80	0.78	0.238	255
3.00	0.80	0.244	246
3.20	0.83	0.253	238
3.40	0.86	0.262	231
3.60	0.88	0.268	225
3.80	0.91	0.277	219
4.00	0.93	0.283	213