



SUHNER® MICROWAVE CABLE DATA SHEET

TYPE SUCOFORM_86_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>	0.29 mm
Dielectric:	<i>PTFE (Polytetrafluorethyl.)</i>		1.65 mm
1. Outer conductor:	<i>Copper: Tin Plated</i>	<i>Tin soaked braid</i>	2.1 mm
Jacket:	<i>FEP (Fluorethylene Prop.)</i>	<i>RAL 3027 - rd</i>	2.5 mm
Print:	<i>HUBER+SUHNER SUCOFORM 86 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:	1.5	kV _{rms} (at sea level)

General Data

Temperature range:	-55 °C...+ 165 °C
Weight:	1.7 kg / 100 m
Min. bending radius :	static 6 mm
	repeated (for max. 50 bendings) 20 mm

Suitable Connectors

Cable group *Y4*
(for details refer to the "SUHNER Microwave Cables and Assemblies General Catalogue" or contact you nearest HUBER+SUHNER partner)

Notes

Order as **SUCOFORM_86_75_FEP**



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Matrix Attenuation [formula : $(a \cdot f^{0.5} + b \cdot f)$] and Power CW [formula : $(p^2 / f^{0.5})$]

Coefficients:

a= 0.671

b= 0.0672

$f_{\max} = 4$

$p_{\text{at } 1\text{GHz}} = 130$

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	0.31	0.094	291
0.40	0.45	0.137	206
0.60	0.56	0.171	168
0.80	0.65	0.198	145
1.00	0.74	0.226	130
1.20	0.82	0.250	119
1.40	0.89	0.271	110
1.60	0.96	0.293	103
1.80	1.02	0.311	97
2.00	1.08	0.329	92
2.20	1.14	0.347	88
2.40	1.20	0.366	84
2.60	1.26	0.384	81
2.80	1.31	0.399	78
3.00	1.36	0.415	75
3.20	1.42	0.433	73
3.40	1.47	0.448	71
3.60	1.52	0.463	69
3.80	1.56	0.475	67
4.00	1.61	0.491	65