



# SUHNER® MICROWAVE CABLE DATA SHEET

## TYPE SUCOFORM\_86\_75

SUCOFORM, the handformable microwave cable

### Cable Design



	<b>Material</b>	<b>Detail</b>	<b>Diameter</b>
Centre conductor:	<i>Steel: Copper+Silver Plated</i>	<i>Wire</i>	0.29 mm
Dielectric:	<i>PTFE (Polytetrafluorethyln.)</i>		1.65 mm
1. Outer conductor:	<i>Copper: Tin Plated</i>	<i>Tin soaked braid</i>	2.1 mm
Print:	<i>HUBER+SUHNER SUCOFORM 86 75 Ohm (PA no.)</i>		

### Electrical Data

Impedance:	75	$\Omega$
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 <sub>rms</sub> (at sea level)

### General Data

Temperature range:	-65 °C...+ 165 °C	
Weight:	1.4 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**



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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

$f_{\max} = 4$

$p_{\text{at } 1\text{GHz}} = 120$

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	268
0.40	0.45	0.137	190
0.60	0.56	0.171	155
0.80	0.65	0.198	134
1.00	0.74	0.226	120
1.20	0.82	0.250	110
1.40	0.89	0.271	101
1.60	0.96	0.293	95
1.80	1.02	0.311	89
2.00	1.08	0.329	85
2.20	1.14	0.347	81
2.40	1.20	0.366	77
2.60	1.26	0.384	74
2.80	1.31	0.399	72
3.00	1.36	0.415	69
3.20	1.42	0.433	67
3.40	1.47	0.448	65
3.60	1.52	0.463	63
3.80	1.56	0.475	62
4.00	1.61	0.491	60