

Coaxial Cable SUCOFORM_86_75

Description

SUCOFORM, the handformable microwave cable



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper+Silver plated	Wire	0.29 mm
Dielectric	PTFE (Polytetrafluoroethylene)		1.65 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 100%	2.1 mm

Print: HUBER+SUHNER SUCOFORM 86 75 Ohm (PA no.)

Electrical Data

Impedance	75 Ω +/- 3
Operating Frequency	4 GHz
Capacitance	62 pF/m
Velocity of signal propagation	71 %
Signal delay	4.7 ns/m
Insulation resistance	≥ 1 x 10 ⁸ MΩm
Min. screening effectiveness	≥ 100 dB (up to 4 GHz)
Max. operating voltage	≤ 1.5 kV _{rms} (at sea level)
Test voltage	3 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight		1.4 kg/100 m
Min. bending radius	static	6 mm
	repeated (for ≤ 50 bendings)	20 mm

Environmental Data

Temperature range	-65 °C... +165 °C
Installation temperature	-20 °C... +60 °C
Flammability	IEC 60332-1, UL 1581 § 1080 (VW-1),
2011/95/EC (RoHS)	compliant

Additional Information

Ordering Information

Order as SUCOFORM_86_75

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 U99 Customer Specific

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

Coefficients:

a = 0.671

b = 0.0672

f_{max} = 4

P at 1GHz = 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
0.2	0.31	0.096	268
0.4	0.45	0.138	190
0.6	0.56	0.171	155
0.8	0.65	0.199	134
1.0	0.74	0.225	120
1.2	0.82	0.249	110
1.4	0.89	0.271	101
1.6	0.96	0.291	95
1.8	1.02	0.311	89
2.0	1.08	0.330	85
2.2	1.14	0.348	81
2.4	1.2	0.366	77
2.6	1.26	0.383	74
2.8	1.31	0.400	72
3.0	1.36	0.416	69
3.2	1.42	0.431	67
3.4	1.47	0.447	65
3.6	1.52	0.462	63
3.8	1.56	0.476	62
4.0	1.61	0.491	60