

Formable microwave cable SUCOFORM_86_75_FEP

Description

Sucoform: Formstable, hand-formable alternatives to semi-rigid microwave cables

75 Ohm, 4 GHz, 165°C, ø2.5 mm, FEP jacket



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
Jacket	FEP (Fluorinated ethylene propylene)	RAL 3020 - rd	2.5 mm +/- 0.1

Print: HUBER+SUHNER SUCOFORM 86 75 FEP 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 MQm
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		1.7 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)
2011/65/EU (RoHS)	compliant

Additional Information

Ordering Information

Order as	SUCOFORM_86_75_FEP
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Remarks

(For details refer to the HUBER+SUHNER RF CABLES 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 = 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
0.2	0.31	0.096	291
0.4	0.45	0.138	206
0.6	0.56	0.171	168
0.8	0.65	0.199	145
1.0	0.74	0.225	130
1.2	0.82	0.249	119
1.4	0.89	0.271	110
1.6	0.96	0.291	103
1.8	1.02	0.311	97
2.0	1.08	0.330	92
2.2	1.14	0.348	88
2.4	1.2	0.366	84
2.6	1.26	0.383	81
2.8	1.31	0.400	78
3.0	1.36	0.416	75
3.2	1.42	0.431	73
3.4	1.47	0.447	71
3.6	1.52	0.462	69
3.8	1.56	0.476	67
4.0	1.61	0.491	65