

Coaxial Cable SUCOFORM_141_75_FEP

Description

SUCOFORM, the handformable microwave cable with protective jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper+Silver plated	Wire	0.52 mm
Dielectric	PTFE (Polytetrafluoroethylene)		2.95 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 100%	3.58 mm
Jacket	FEP (Fluorinated ethylene propylene)	RAL 3020 - rd	4.1 mm +/- 0.1

Print: HUBER+SUHNER SUCOFORM 141 75 FEP 75 Ohm (PA no.)

Electrical Data

Impedance	75 Ω +/- 2
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	≤ 1.9 kV _{rms} (at sea level)
Test voltage	5 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	4.5 kg/100 m
Min. bending radius	static repeated (for ≤ 50 bendings)
	8 mm 40 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_141_75_FEP
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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 = 0.4457

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
0,2	0,2	0,061	953
0,4	0,29	0,087	674
0,6	0,35	0,107	550
0,8	0,41	0,124	476
1,0	0,46	0,139	426
1,2	0,5	0,153	389
1,4	0,54	0,165	360
1,6	0,58	0,177	337
1,8	0,62	0,188	318
2,0	0,65	0,199	301
2,2	0,68	0,209	287
2,4	0,72	0,218	275
2,6	0,75	0,228	264
2,8	0,78	0,237	255
3,0	0,8	0,245	246
3,2	0,83	0,254	238
3,4	0,86	0,262	231
3,6	0,88	0,270	225
3,8	0,91	0,277	219
4,0	0,93	0,285	213