Data Sheet

Coaxial Cable
SUCOFORM_47_CU_LSFH

Description

SUCOFORM, the handformable microwave cable

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	0.31 mm
Dielectric	PTFE (Polytetrafluoroethylene)		0.94 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 100%	1.19 mm
Jacket	LSFH (modified polyethylene)	RAL 9005 - bk	1.7 mm

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	40 GHz
Capacitance	95 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 18 GHz)
Max. operating voltage	≤ 1 kV_{rms} (at sea level)
Test voltage	2 kV_{rms} (50 Hz/1 min)

Mechanical Data

Weight		0.75 kg/100 m
Min. bending radius	static	4 mm

Environmental Data

Temperature range	-40 °C... +85 °C
Installation temperature	-20 °C... +60 °C
2011/95/EC (RoHS)	compliant

Additional Information

Ordering Information

Order as	SUCOFORM_47_CU_LSFH

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	Y2 1 mm / 50 Ohm

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Matrix typical Attenuation [formula: (a*f^0.5 + b*f)] and maximum Power CW [formula: (p/f^0.5)]
Coefficients:

a = 1.133	b = 0.0396	f_{max} = 40	P at 1GHz = 11

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
2,0	1,68	0,512	8
4,0	2,42	0,739	6
6,0	3,01	0,918	4
8,0	3,52	1,073	4
10,0	3,98	1,213	3
12,0	4,4	1,341	3
14,0	4,79	1,461	3
16,0	5,17	1,574	3
18,0	5,52	1,682	3
20,0	5,86	1,786	2
22,0	6,19	1,885	2
24,0	6,5	1,981	2
26,0	6,81	2,075	2
28,0	7,1	2,165	2
30,0	7,39	2,253	2
32,0	7,68	2,340	2
34,0	7,95	2,424	2
36,0	8,22	2,506	2
38,0	8,49	2,587	2
40,0	8,75	2,667	2