

Coaxial Cable SUCOFORM_86_LSFH

Description

SUCOFORM, the handformable microwave cable with protective jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper+Silver plated	Wire	0.53 mm
Dielectric	PTFE (Polytetrafluoroethylene)		1.65 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 100%	2.1 mm
Jacket	LSFH (modified polyethylene)	RAL 9005 - bk	3.2 mm +/- 0.1

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

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	≤ 1.5 kV _{rms} (at sea level)
Test voltage	3 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	2.4 kg/100 m
Min. bending radius	static repeated (for ≤ 50 bendings)
	6 mm 20 mm

Environmental Data

Temperature range	-40 °C... +85 °C
Flammability	IEC 60332-2, UL 1581 § 1100,
2011/95/EC (RoHS)	compliant

Additional Information

Ordering Information

Order as	SUCOFORM_86_LSFH
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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	Y16 2 mm / 50 Ohm
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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 = 0.6283

b = 0.04

$f_{max} = 40$

P at 1GHz = 30

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	0.97	0.295	21
4.0	1.42	0.432	15
6.0	1.78	0.542	12
8.0	2.1	0.639	11
10.0	2.39	0.727	9
12.0	2.66	0.810	9
14.0	2.91	0.887	8
16.0	3.15	0.961	8
18.0	3.39	1.032	7
20.0	3.61	1.100	7
22.0	3.83	1.166	6
24.0	4.04	1.231	6
26.0	4.24	1.293	6
28.0	4.44	1.355	6
30.0	4.64	1.415	5
32.0	4.83	1.473	5
34.0	5.02	1.531	5
36.0	5.21	1.588	5
38.0	5.39	1.644	5
40.0	5.57	1.699	5