

Coaxial Cable SUCOFLEX_101_PE

Description

SUCOFLEX 100, the flexible, high performance microwave cable



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Strand-19	
Dielectric	PTFE-LD		
Outer conductor	Copper, Silver plated	wrapped Foil, 100%	
Outer conductor	Copper, Silver plated	Braid	
Jacket	PUR (Polyurethane)	RAL 5009 - bl	3.65 mm

Electrical Data

Impedance	50 Ω
Operating Frequency	50 GHz
Capacitance	87 pF/m
Velocity of signal propagation	77 %
Signal delay	4.3 ns/m
Insulation resistance	≥ 1 x 10 ⁸ MΩm
Min. screening effectiveness	≥ 90 dB (up to 18 GHz)
Max. operating voltage	≤ 1.2 kV _{rms} (at sea level)

Mechanical Data

Weight		3 kg/100 m
Min. bending radius	static	11 mm
	dynamic	20 mm

Environmental Data

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

Additional Information

Ordering Information

Order as SUCOFLEX_101_PE (available only as assembly)

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 U98 SUCOFLEX

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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 = 0.5758

b = 0.0285

f_{max} = 50

P at 1GHz = 59

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
2.5	0.98	0.299	37
5.0	1.43	0.436	26
7.5	1.79	0.546	22
10.0	2.11	0.642	19
12.5	2.39	0.729	17
15.0	2.66	0.810	15
17.5	2.91	0.886	14
20.0	3.15	0.959	13
22.5	3.37	1.028	12
25.0	3.59	1.095	12
27.5	3.8	1.159	11
30.0	4.01	1.222	11
32.5	4.21	1.283	10
35.0	4.4	1.342	10
37.5	4.59	1.400	10
40.0	4.78	1.457	9
42.5	4.97	1.513	9
45.0	5.15	1.568	9
47.5	5.32	1.622	9
50.0	5.5	1.675	8