

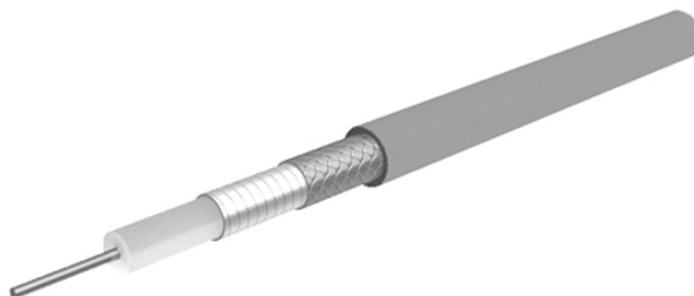
Flexible microwave cable

SUCOFLEX_101_PE Item: 22512106 Only as Assembly

Description

SUCOFLEX 100: The flexible, high-performance microwave assemblies

High-flexible, 50 Ohm, 50 GHz, 85°C, ø3.65 mm, PUR jacket



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
Screening effectiveness	≥ 90 dB (up to 18 GHz)
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
Halogen free	No
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
1907/2006/EC (REACH)	compliant
2000/53/EC (ELV)	compliant
2012/19/EU (WEEE)	no special marking needed

Additional Information

Remarks

(For details refer to the HUBER+SUHNER RF CABLES GENERAL CATALOGUE or contact your nearest HUBER+SUHNER partner)

Suitable Connectors

Cable group	U98 SUCOFLEX
-------------	--------------

Flexible microwave cable

SUCOFLEX_101_PE Item: 22512106 Only as Assembly

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	Nom. attenuation	Nom. attenuation	Max. CW power
(GHz)	(dB / m)	(dB / ft)	(W)
	sea level 25° C ambient temperature	sea level 25° C ambient temperature	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