

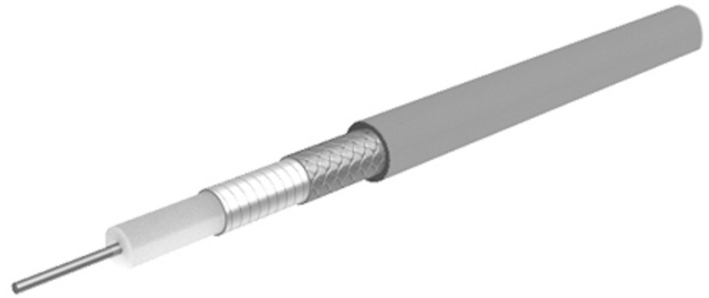
Flexible microwave cable

SUCOFLEX_550_E Item: 85084761 Only as Assembly

Description

SUCOFLEX 500: The phase stable, low loss assemblies for flexible applications

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, Low-loss	
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

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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 = 0.4255

b = 0.01

f_{max} = 50

P at 1GHz = 200

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 (W) sea level 40° C ambient temperature
2.5	0.7	0.213	126
5.0	1.0	0.305	89
7.5	1.24	0.378	73
10.0	1.45	0.441	63
12.5	1.63	0.497	57
15.0	1.8	0.548	52
17.5	1.95	0.596	48
20.0	2.1	0.641	45
22.5	2.24	0.684	42
25.0	2.38	0.725	40
27.5	2.51	0.764	38
30.0	2.63	0.802	37
32.5	2.75	0.838	35
35.0	2.87	0.874	34
37.5	2.98	0.908	33
40.0	3.09	0.942	32
42.5	3.2	0.975	31
45.0	3.3	1.007	30
47.5	3.41	1.039	29
50.0	3.51	1.069	28