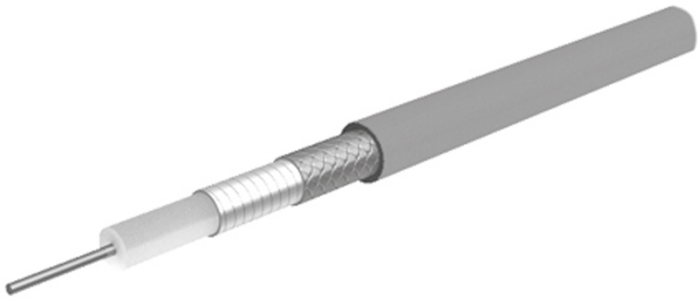
Data Sheet

Flexible microwave cable SUCOFLEX_126_E

Description

SUCOFLEX 100: The flexible, high-performance microwave assemblies

High-flexible, 50 Ohm, 26.5 GHz, 85°C, ø5.5 mm, PUR jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Strand, Low-loss	
Dielectric	PTFE (Polytetrafluoroethylene)		
Outer conductor	Copper, Silver plated	wrapped Foil, 100%	
Outer conductor	Copper, Silver plated	Braid	
Jacket	PUR (Polyurethane)	RAL 5009 - bl	5.5 mm

Electrical Data

Impedance	50 Ω
Operating Frequency	26.5 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	≤ 2.4 kV_{rms} (at sea level)

Mechanical Data

Weight		6.6 kg/100 m
Min. bending radius	static	16 mm
	dynamic	25 mm

Environmental Data

Temperature range	-40 °C... +85 °C
2011/65/EU (RoHS)	compliant

Additional Information

Ordering Information

Order as	SUCOFLEX_126_E (available only as assembly)

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

a =	0.229	b =	0.0071	f_{max} =	26.5	P at 1GHz =	600

Frequency	Nom. attenuation	Nom. attenuation	Max. CW power
(GHz)	(dB / m)	(dB / ft)	(watt)
	sea level 25° C ambient temperature	sea level 25° C ambient temperature	sea level 40° C ambient temperature
1,32	0,27	0,083	522
2,65	0,39	0,119	369
3,97	0,48	0,148	301
5,3	0,56	0,172	261
6,62	0,64	0,194	233
7,95	0,7	0,214	213
9,28	0,76	0,233	197
10,6	0,82	0,250	184
11,92	0,88	0,267	174
13,25	0,93	0,283	165
14,58	0,98	0,298	157
15,9	1,03	0,313	150
17,22	1,07	0,327	145
18,55	1,12	0,341	139
19,88	1,16	0,354	135
21,2	1,2	0,367	130
22,52	1,25	0,380	126
23,85	1,29	0,392	123
25,18	1,33	0,405	120
26,5	1,37	0,417	117

Waiver: Fact and figures herein are for information only and do not represent any warranty of any kind.