Data Sheet

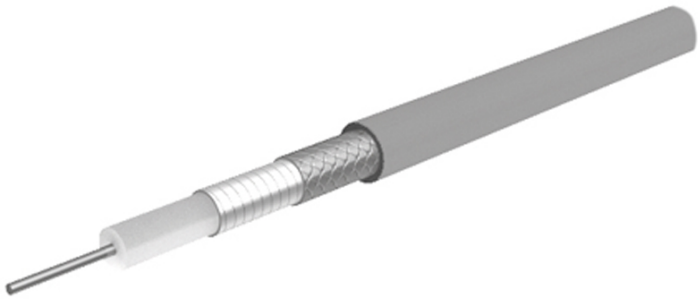
HUBER+SUHNER

Flexible microwave cable
SUCOFLEX_126 Item: 85020264 Only as Assembly

Description

SUCOFLEX 100: The flexible, high-performance microwave assemblies

High-flexible, 50 Ohm, 26.5 GHz, 165°C, ø5.5 mm, FEP 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	FEP (Fluorinated ethylene propylene)	RAL 5000 - 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
Screening effectiveness		≥ 90 dB (up to 18 GHz)
Operating voltage		≤ 2.4 kV_{rms} (at sea level)

Mechanical Data

Weight		7 kg/100 m
Min. bending radius	static	16 mm
	dynamic	25 mm

Environmental Data

Temperature range	-55 °C ... +165 °C
Flame propagation test	MIL-T-87104 § 4.6.4.8,
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*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 =	907

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
1,32	0,27	0,083	789
2,65	0,39	0,119	557
3,97	0,48	0,148	455
5,3	0,56	0,172	394
6,62	0,64	0,194	353
7,95	0,7	0,214	322
9,28	0,76	0,233	298
10,6	0,82	0,250	279
11,92	0,88	0,267	263
13,25	0,93	0,283	249
14,58	0,98	0,298	238
15,9	1,03	0,313	227
17,22	1,07	0,327	219
18,55	1,12	0,341	211
19,88	1,16	0,354	203
21,2	1,2	0,367	197
22,52	1,25	0,380	191
23,85	1,29	0,392	186
25,18	1,33	0,405	181
26,5	1,37	0,417	176

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