Data Sheet

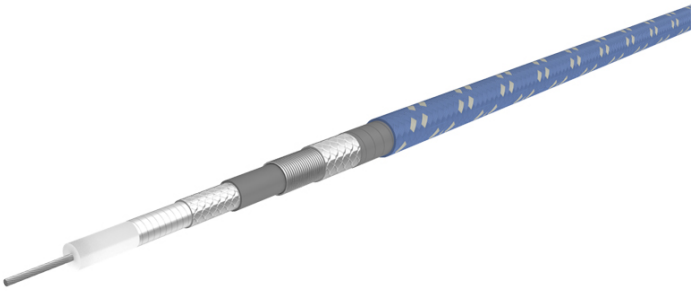
HUBER+SUHNER

Flexible microwave cable
SUCOFLEX_526_S Item: 85082728 Only as Assembly

Description

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

High-flexible, 50 Ohm, 26.5 GHz, 165°C, ø7.7 mm, PTFE 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)		
Armor: Steel wire helix (Spiral)	Steel		
Armor: Steel wire	Steel	Braid	
Jacket	PTFE (Polytetrafluoroethylene)	RAL 5023 - bl	7.7 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

Mechanical Data

Weight		144 kg/100 m
Min. bending radius	static	25.4 mm

Environmental Data

Temperature range	-55 °C ... +165 °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*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 =	800

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	696
2,65	0,39	0,119	491
3,97	0,48	0,148	402
5,3	0,56	0,172	347
6,62	0,64	0,194	311
7,95	0,7	0,214	284
9,28	0,76	0,233	263
10,6	0,82	0,250	246
11,92	0,88	0,267	232
13,25	0,93	0,283	220
14,58	0,98	0,298	210
15,9	1,03	0,313	201
17,22	1,07	0,327	193
18,55	1,12	0,341	186
19,88	1,16	0,354	179
21,2	1,2	0,367	174
22,52	1,25	0,380	169
23,85	1,29	0,392	164
25,18	1,33	0,405	159
26,5	1,37	0,417	155