

## Flexible microwave cable SUCOFLEX\_526\_S

### 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

#### Ordering Information

Order as SUCOFLEX\_526\_S (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:  $(a \cdot f^{0.5} + b \cdot f)$  ] 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 (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
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