

Coaxial Cable SUCOFLEX_106_P

Description

SUCOFLEX 100, the flexible, high performance microwave cable



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Strand-19	
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	7.9 mm

Electrical Data

Impedance	50 Ω
Operating Frequency	18 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	≤ 3.2 kV _{rms} (at sea level)

Mechanical Data

Weight		13.7 kg/100 m
Min. bending radius	static	24 mm
	dynamic	40 mm

Environmental Data

Temperature range	-55 °C... +165 °C
Flammability	MIL-T-87104 § 4.6.4.8, ,
2011/95/EC (RoHS)	compliant

Additional Information

Ordering Information

Order as SUCOFLEX_106_P (available only as assembly)

Remarks

(For details refer to the HUBER+SUHNER MICROWAVE CABLES AND ASSEMBLIES 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 = 0.191

b = 0.0255

f_{max} = 18

P at 1GHz = 1383

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 (watt) sea level 40° C ambient temperature
0.9	0.2	0.062	1458
1.8	0.3	0.092	1031
2.7	0.38	0.117	842
3.6	0.45	0.138	729
4.5	0.52	0.158	652
5.4	0.58	0.177	595
6.3	0.64	0.195	551
7.2	0.7	0.212	515
8.1	0.75	0.229	486
9.0	0.8	0.245	461
9.9	0.85	0.260	440
10.8	0.9	0.275	421
11.7	0.95	0.290	404
12.6	1.0	0.305	390
13.5	1.05	0.319	376
14.4	1.09	0.333	364
15.3	1.14	0.347	354
16.2	1.18	0.360	344
17.1	1.23	0.374	334
18.0	1.27	0.387	326