Data Sheet

Coaxial Cable
SUCOFLEX_104

Description

SUCOFLEX 100, the flexible, high performance microwave cable

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	
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
Insulation resistance	≥ 1 x 10^8 MΩm
Min. screening effectiveness	≥ 90 dB (up to 18 GHz)
Max. operating voltage	≤ 2.6 kV_{rms} (at sea level)

Mechanical Data

Weight		7.2 kg/100 m
Min. bending radius	static	16 mm
	dynamic	25 mm

Environmental Data

Temperature range	-55 °C... +165 °C
Flammability	MIL-T-87104 § 4.6.4.8, ,
2011/65/EU (RoHS)	compliant

Additional Information

Ordering Information

Order as	SUCOFLEX_104 (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*f^0.5 + b*f)] and maximum Power CW [formula: (p/f^0.5)]
Coefficients:

a =	0.2291	b =	0.0071	f_{max} =	26.5	P at 1GHz =	907

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
2.65	0.39	0.119	557
3.97	0.48	0.148	455
5.3	0.57	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	1.21	0.367	197
22.52	1.25	0.380	191
23.85	1.29	0.393	186
25.18	1.33	0.405	181
26.5	1.37	0.417	176