

High performance microwave cable

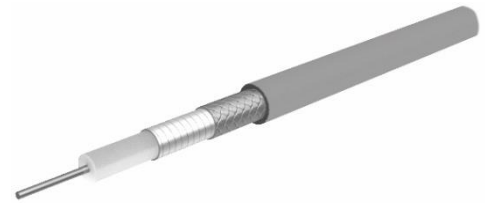
SUCOFLEX_570

Only assembly

Description

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

High flexible, 50 Ohm, 70 GHz, 165°C, ø3.3 mm, FEP jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	
Dielectric	PTFE (Polytetrafluoroethylene)		
Outer conductor	Copper, Silver plated	wrapped foil	
Outer conductor	Copper, Silver plated	Braid	
Jacket	FEP (Fluorinated ethylene propylene)	RAL 5015 - bl	3.3 mm

Electrical Data

Impedance	50 Ω
Operating Frequency	70 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	≤ 0.7 kV _{rms} (at sea level)

Mechanical Data

Weight	2.5 kg/100 m
Min. bending radius	static 11 mm

Environmental Data

Temperature range	-55 °C ... +165 °C
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 CABLESGENERAL CATALOGUE or contact your nearest HUBER+SUHNER partner)

High performance microwave cable

SUCOFLEX_570

Only assembly

Matrix typical Attenuation [formula: $(a \cdot f^{0.5} + b \cdot f)$] and maximum Power CW [formula: $(p/f^{0.5})$]

Coefficients:

a = 0.64

b = 0.01

f_{max} = 70

P at 1GHz = 171

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
3.50	1.23	0.38	91
7.00	1.76	0.54	65
10.50	2.18	0.66	53
14.00	2.53	0.77	46
17.50	2.85	0.87	41
21.00	3.14	0.96	37
24.50	3.41	1.04	35
28.00	3.67	1.12	32
31.50	3.91	1.19	30
35.00	4.14	1.26	29
38.50	4.36	1.33	28
42.00	4.57	1.39	26
45.50	4.77	1.45	25
49.00	4.97	1.51	24
52.50	5.16	1.57	24
56.00	5.35	1.63	23
59.50	5.53	1.69	22
63.00	5.71	1.74	22
66.50	5.88	1.79	21
70.00	6.05	1.85	20

High performance microwave cable

SUCOFLEX_570

Only assembly
