Data Sheet

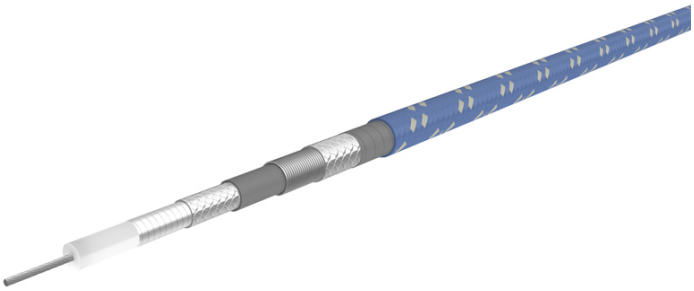
HUBER+SUHNER

SUCOFLEX_570_S Item: 85137558 Only as Assembly

Description

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

High-flexible, 50 Ohm, 70 GHz, 165°C, ø5.8 mm, PTFE jacket



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)		
Armor: Steel wire helix (Spiral)	Steel		
Armor: Steel wire	Steel	Braid	
Jacket	PTFE (Polytetrafluoroethylene)	RAL 5023 - bl	5.8 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

Min. bending radius	static	25.4 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 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 = 0.64	b = 0.01	f_{max} = 70	P at 1GHz = 135

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
3,5	1,23	0,376	72
7,0	1,76	0,537	51
10,5	2,18	0,664	42
14,0	2,53	0,773	36
17,5	2,85	0,869	32
21,0	3,14	0,958	29
24,5	3,41	1,040	27
28,0	3,67	1,118	26
31,5	3,91	1,191	24
35,0	4,14	1,261	23
38,5	4,36	1,328	22
42,0	4,57	1,392	21
45,5	4,77	1,454	20
49,0	4,97	1,515	19
52,5	5,16	1,573	19
56,0	5,35	1,630	18
59,5	5,53	1,686	18
63,0	5,71	1,740	17
66,5	5,88	1,793	17
70,0	6,05	1,845	16

Waiver: Fact and figures herein are for information only and do not represent any warranty of any kind.