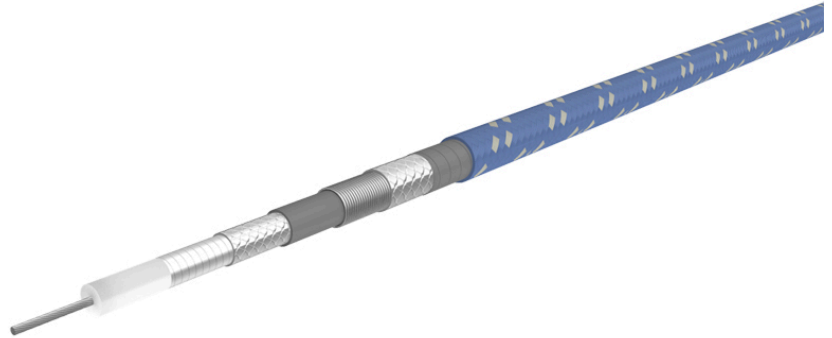


High-flexible, 50 Ohm, 70 GHz, 165°C, ø5.8 mm, PTFE jacket SUCOFLEX_570_S

Properties

- Applicable up to 70 GHz
- High phase- and amplitude stability with flexure and movement
- Excellent insertion and return loss
- Precise and repeatable measurements
- Long life time - lower measurement cost



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	
Dielectric	PTFE (Polytetrafluoroethylene)		
Outer conductor	Copper, Silver plated	Wrapped foil, 100%	
Outer braid	Copper, Silver plated	Braid	
Jacket	FEP (Fluorinated ethylene propylene)		
Armour	Steel	Wire helix (Spiral)	
Armour	Steel	Braid	
Armour	Helically wrapped PTFE-Silicone (glued) tape	Tape	
Jacket	PTFE (Polytetrafluoroethylene)	Braid, RAL 5023 - bl	5.8mm

Electrical data	
Impedance	50 Ω
Operating frequency	≤ 70 GHz
Capacitance	87 pF
Velocity of signal propagation	77 %
Signal delay	4.3 ns/m
Screening effectiveness	90 dB at frequency 0.1 GHz ... 18GHz
Insulation resistance	< 100000000 MΩ*m
Operating Voltage (at sea level)	≤ 0.7 kV

Mechanical data	
Weight	approx. 76 g/m
Static bending radius	≥ 25.4 mm

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SUCOFLEX_570_S

Environmental data	
Operation temperature	-55 °C ... 165°C
Fire characteristics	contains halogene

Additional Information
Only available as cable assembly, not sold as bulk

Suitable connectors	
Cable group	U98

Ordering information		
Item number	Item description	Available as assembly only
85137558	SUCOFLEX_570_S	Yes

Power Matrix			
Calculation: typical Attenuation [formula: (a*f^0.5 + b*f)] and maximum Power CW [formula: (p/f^0.5)]			
a coefficient typical =	0.64	b coefficient typical =	0.01
fmax =	70.0	P at 1 GHz =	135.0
Frequency GHz	Nom. attenuation (dB/m)	Nom. attenuation Max. (dB/ft)	CW power (W)
	sea level 25°C ambient temperature	sea level 25°C ambient temperature	sea level 40°C ambient temperature
0.20	0.288	0.088	302
0.40	0.409	0.125	213
0.60	0.502	0.153	174
0.80	0.580	0.177	151
1.00	0.650	0.198	135
1.20	0.713	0.217	123
1.40	0.771	0.235	114
1.60	0.826	0.252	107
1.80	0.877	0.267	101
2.00	0.925	0.282	95
4.00	1.320	0.402	68
6.00	1.628	0.496	55
8.00	1.890	0.576	48
10.00	2.124	0.647	43
20.00	3.062	0.933	30
40.00	4.448	1.356	21
60.00	5.557	1.694	17
70.00	6.055	1.846	16

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