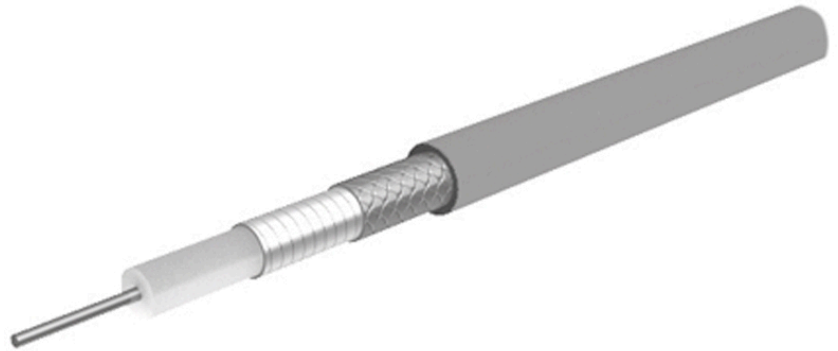


High-flexible, 50 Ohm, 70 GHz, 85°C, ø3.3 mm, PUR jacket

SUCOFLEX_570_E

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	PUR (Polyurethane)	RAL 5009 - bl	3.3mm

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)	≤ 0.5 kV

Mechanical data

Weight	approx. 20 g/m
Static bending radius	≥ 11 mm
Dynamic bending radius	≥ 20 mm

Environmental data

Operation temperature	-40 °C ... 85°C
Fire characteristics	contains halogene

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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
85166535	SUCOFLEX_570_E	Yes

Power Matrix

Calculation: typical Attenuation [formula: $(a \cdot f^{0.5} + b \cdot f)$] 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 =	115.0

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	257
0.40	0.409	0.125	182
0.60	0.502	0.153	148
0.80	0.580	0.177	129
1.00	0.650	0.198	115
1.20	0.713	0.217	105
1.40	0.771	0.235	97
1.60	0.826	0.252	91
1.80	0.877	0.267	86
2.00	0.925	0.282	81
4.00	1.320	0.402	58
6.00	1.628	0.496	47
8.00	1.890	0.576	41
10.00	2.124	0.647	36
20.00	3.062	0.933	26
40.00	4.448	1.356	18
60.00	5.557	1.694	15
70.00	6.055	1.846	14

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