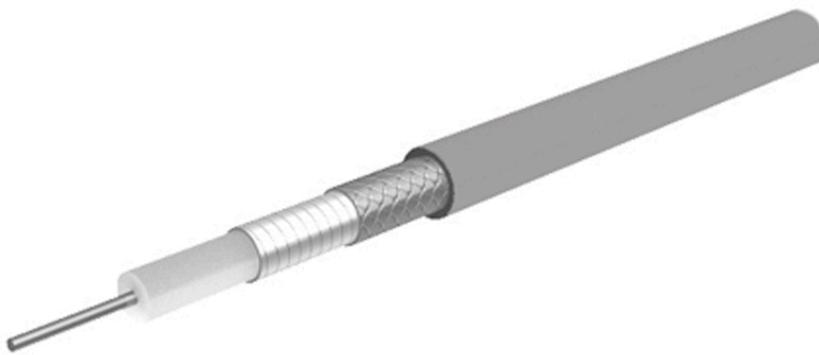


High-flexible, 50 Ohm, 50 GHz, 85°C, Ø3.65 mm, PUR jacket

SUCOFLEX_550_E

Properties

- Applicable up to 50 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	Strand, Low-loss	
Dielectric	PTFE (Polytetrafluoroethylene)		
Outer conductor	Copper, Silver plated	Wrapped foil, 100%	
Outer braid	Copper, Silver plated	Braid	
Jacket	PUR (Polyurethane)	RAL 5009 - bl	3.65mm

Electrical data

Impedance	50 Ω
Operating frequency	≤ 50 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)	≤ 1.2 kV

Mechanical data

Weight	approx. 30 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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SUCOFLEX_550_E

Additional Information

Only available as cable assembly, not sold as bulk

Suitable connectors

Cable group	U98
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Ordering information

Item number	Item description	Available as assembly only
85084761	SUCOFLEX_550_E	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 =	0.4255	b coefficient typical =	0.01
fmax =	50.0	P at 1 GHz =	200.0
<hr/>			
Frequency	Nom. attenuation	Nom. attenuation Max.	CW power
GHz	(dB/m)	(dB/ft)	(W)
	sea level 25°C ambient temperature	sea level 25°C ambient temperature	sea level 40°C ambient temperature
0.20	0.192	0.059	447
0.40	0.273	0.083	316
0.60	0.336	0.102	258
0.80	0.389	0.119	224
1.00	0.435	0.133	200
1.20	0.478	0.146	183
1.40	0.517	0.158	169
1.60	0.554	0.169	158
1.80	0.589	0.180	149
2.00	0.622	0.190	141
4.00	0.891	0.272	100
6.00	1.102	0.336	82
8.00	1.283	0.391	71
10.00	1.446	0.441	63
20.00	2.103	0.641	45
40.00	3.091	0.942	32
50.00	3.509	1.070	28

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