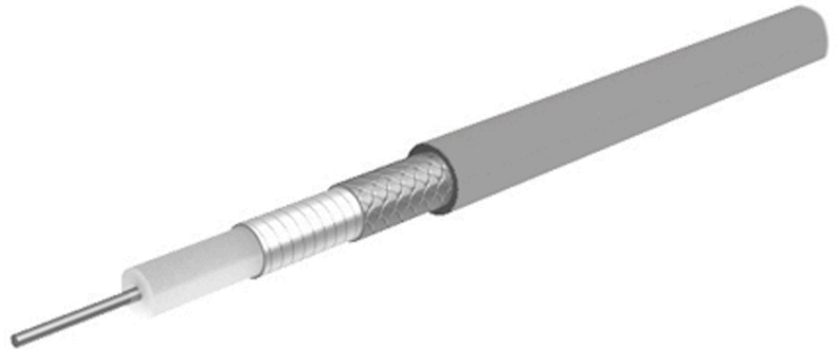


High-flexible, 50 Ohm, 40 GHz, 85 C, Ø4.0 mm, PUR jacket SUCOFLEX_540_E

Properties

- Applicable up to 40 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	4mm
Electrical data			
Impedance		50 Ω	
Operating frequency		≤ 40 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)		≤ 1.4 kV	
Mechanical data			
Weight		approx. 36 g/m	
Static bending radius		≥ 12 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
85179387	SUCOFLEX_540_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 =	0.363	b coefficient typical =	0.009
fmax =	40.0	P at 1 GHz =	240.0

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	0.164	0.050	537
0.40	0.233	0.071	379
0.60	0.287	0.087	310
0.80	0.332	0.101	268
1.00	0.372	0.113	240
1.20	0.408	0.124	219
1.40	0.442	0.135	203
1.60	0.474	0.144	190
1.80	0.503	0.153	179
2.00	0.531	0.162	170
4.00	0.762	0.232	120
6.00	0.943	0.287	98
8.00	1.099	0.335	85
10.00	1.238	0.377	76
20.00	1.803	0.550	54
40.00	2.656	0.810	38

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