

High-flexible armoured, 50 Ohm, 40 GHz, 85°C, ø7.7 mm, PUR jacket SUCOFLEX_540_EA

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)		
Armour	Steel	Wire helix (Spiral)	
Armour	Steel	Braid	
Jacket	PUR (Polyurethane)	RAL 5009 - bl	7.7mm

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	90dB
Insulation resistance	100000000 MΩ*m

Mechanical data	
Weight	approx. 120 g/m
Static bending radius	≥ 20 mm
Dynamic bending radius	≥ 40 mm

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

Suitable connectors	
Cable group	U98

Ordering information		
Item number	Item description	Available as assembly only
85179387-22511861	SUCOFLEX_540_EA	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 =	0.363	b coefficient typical =	0.009
fmax =	40.0	P at 1 GHz =	216.0
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	483
0.40	0.233	0.071	342
0.60	0.287	0.087	279
0.80	0.332	0.101	241
1.00	0.372	0.113	216
1.20	0.408	0.124	197
1.40	0.442	0.135	183
1.60	0.474	0.144	171
1.80	0.503	0.153	161
2.00	0.531	0.162	153
4.00	0.762	0.232	108
6.00	0.943	0.287	88
8.00	1.099	0.335	76
10.00	1.238	0.377	68
20.00	1.803	0.550	48
40.00	2.656	0.810	34

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