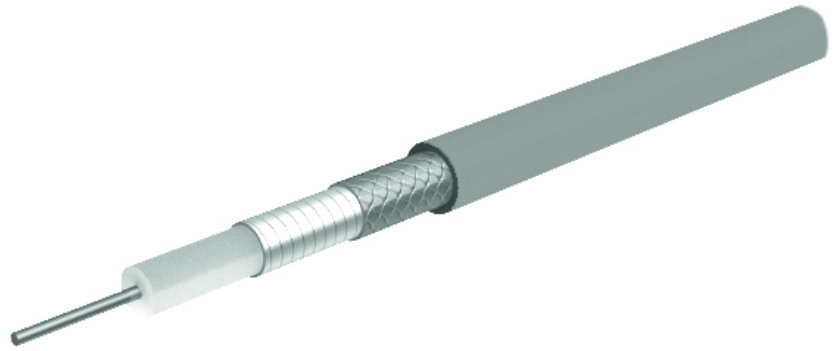


## High-flexible, 50 Ohm, 18 GHz, 85°C, ø8.2 mm, LSFH jacket SUCOFLEX\_118\_I

### Properties

- Applicable up to 18 GHz
- Excellent insertion and return loss
- Extremely reliable and robust
- A wide range of cables, connectors and armours
- MIL qualified



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 conductor	Copper, Silver plated	Braid	
Jacket	LSFH (modified polyethylene)	RAL 9005 - bk	8.2mm

Electrical data	
Impedance	50 Ω +/-1Ω
Operating frequency	≤ 18 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)	≤ 3.8 kV

Mechanical data	
Weight	approx. 146 g/m
Static bending radius	≥ 24 mm
Dynamic bending radius	< 40 mm

Environmental data	
Operation temperature	-40 °C ... 85°C
Flame propagation standard	IEC 60332-1 UL 1581 § 1080 (VW-1)
Fire characteristics	contains halogene

## High-flexible, 50 Ohm, 18 GHz, 85°C, ø8.2 mm, LSFH jacket

SUCOFLEX\_118\_I

Suitable connectors	
Cable group	U98

Ordering information		
Item number	Item description	Available as assembly only
85098534	SUCOFLEX_118_I	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 =	<b>0.15</b>	b coefficient typical =	<b>0.0071</b>
fmax =	<b>18.0</b>	P at 1 GHz =	<b>928.0</b>
<b>Frequency</b>	<b>Nom. attenuation</b>	<b>Nom. attenuation Max.</b>	<b>CW power</b>
<b>GHz</b>	<b>(dB/m)</b>	<b>(dB/ft)</b>	<b>(W)</b>
	sea level 25°C ambient temperature	sea level 25°C ambient temperature	sea level 40°C ambient temperature
0.20	0.069	0.021	2075
0.40	0.098	0.030	1467
0.60	0.120	0.037	1198
0.80	0.140	0.043	1038
1.00	0.157	0.048	928
2.00	0.226	0.069	656
3.00	0.281	0.086	536
5.00	0.371	0.113	415
10.00	0.545	0.166	293
15.00	0.687	0.209	240
18.00	0.764	0.233	219

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