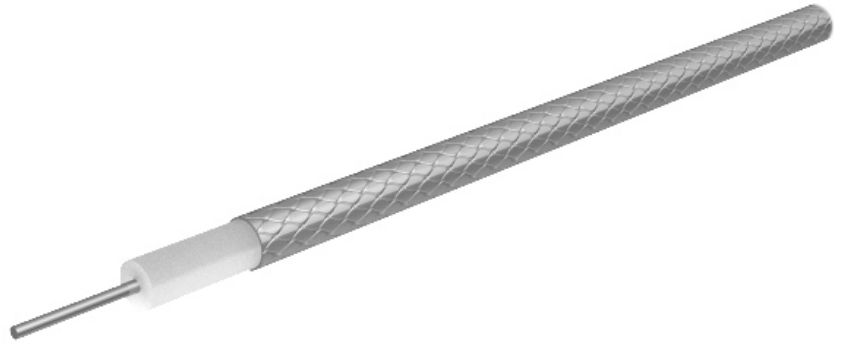


# Hand formable (RG403) 50Ohm, 40GHz, 200°C, ø2.15mm no jacket

## SUCOFORM\_86\_CT

### Properties

- Hand-formable alternative to semi-rigid cables
- Small bend radius allows for space saving routing and packaging
- Performance comparable to semi-rigid cables
- Excellent phase vs. temperature performance for phase stable applications



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	0.62mm
Dielectric	Low density fluorine polymer		1.74mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 100%	2.15mm

Electrical data	
Impedance	50 Ω +/-2Ω
Operating frequency	≤ 40 GHz
Capacitance	83.5 pF
Velocity of signal propagation	80 %
Signal delay	4.2 ns/m
Screening effectiveness	100 dB at frequency 0.1 GHz ... 18GHz
Insulation resistance	100000000 MΩ*m
Operating Voltage (at sea level)	≤ 0.34 kV
Phase vs temperature	400 ppm at temperature -55 ... 125°C
Phase vs bending	5 °/GHz
Test voltage (50 Hz/1 min)	≤ 0.75 kV

Mechanical data	
Weight	approx. 16 g/m
Static bending radius	≥ 6 mm
Dynamic bending radius	< 20 mm

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Environmental data	
Operation temperature	-65 °C ... 200°C
Installation temperature	-20 °C ... 60°C
Fire characteristics	contains halogene

Suitable connectors	
Cable group	Y20

Ordering information		
Item number	Item description	Available as assembly only
85030751	SUCOFORM_86_CT	No

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>0.5476</b>	b coefficient typical =	<b>0.0477</b>
fmax =	<b>40.0</b>	P at 1 GHz =	<b>165.0</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	0.254	0.077	369
0.40	0.365	0.111	261
0.60	0.453	0.138	213
0.80	0.528	0.161	184
1.00	0.595	0.181	165
1.20	0.657	0.200	151
1.40	0.715	0.218	139
1.60	0.769	0.234	130
1.80	0.821	0.250	123
2.00	0.870	0.265	117
4.00	1.286	0.392	82
6.00	1.628	0.496	67
8.00	1.930	0.588	58
10.00	2.209	0.673	52
15.00	2.836	0.864	43
20.00	3.403	1.037	37
25.00	3.930	1.198	33
30.00	4.430	1.350	30
35.00	4.909	1.496	28
40.00	5.371	1.637	26

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