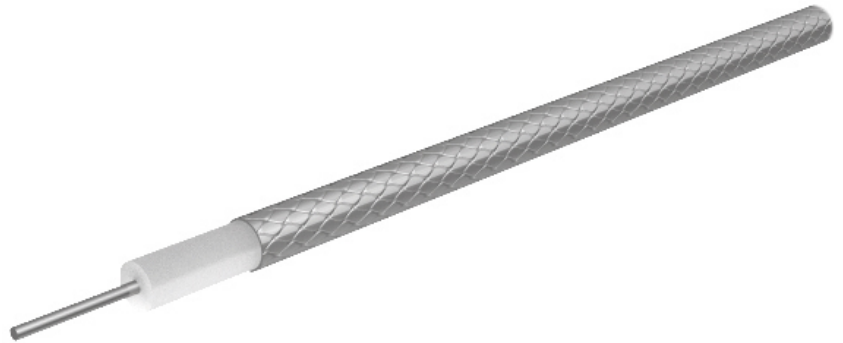


Hand formable (RG403) 50Ohm, 40GHz, 165°C, Ø2.1mm, no jacket

SUCOFORM_86_CU

Properties

- Hand-formable alternative to semi-rigid cables
- Small bend radius allows for space saving routing and packaging
- Performance comparable to semi-rigid cables
- Non-magnetic



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	0.53 mm
Dielectric	PTFE (Polytetrafluoroethylene)		1.65 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 100%	2.1 mm

Electrical data	
Impedance	50 Ω +/-2Ω
Operating frequency	≤ 40 GHz
Capacitance	95 pF/m
Velocity of signal propagation	71 %
Signal delay	4.7 ns/m
Screening effectiveness	100 dB at frequency 0.1 GHz ... 18GHz
Insulation resistance	< 1000000000 MΩ*m
Inner conductor resistance	110 Ω/km
Operating Voltage (at sea level)	≤ 1.5 kVrms
Test voltage (50 Hz/1 min)	≤ 3 kVrms

Mechanical data	
Weight	approx. 15 g/m
Static bending radius	≥ 6 mm
Repeated bending radius	20 mm (bendings, up to 50)

Environmental data	
Operation temperature	-65 °C ... 165 °C
Installation temperature	-20 °C ... 60 °C
Flame propagation standard	IEC 60332-1 UL 1581 § 1080 (VW-1)

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Environmental data			
Fire characteristics		contains halogene	
Suitable connectors			
Cable group		Y16	
Ordering information			
Item number	Item description		Available as assembly only
84084633	SUCOFORM_86_CU		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 =	0.6283	b coefficient typical =	0.04
fmax =	40	P at 1 GHz =	162
Frequency	Nom. attenuation	Nom. attenuation	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	0.289	0.088	362
0.40	0.413	0.126	256
0.60	0.511	0.156	209
0.80	0.594	0.181	181
1.00	0.668	0.204	162
1.20	0.736	0.224	148
1.40	0.799	0.244	137
1.60	0.859	0.262	128
1.80	0.915	0.279	121
2.00	0.969	0.295	115
4.00	1.417	0.432	81
6.00	1.779	0.542	66
8.00	2.097	0.639	57
10.00	2.387	0.728	51
15.00	3.033	0.925	42
20.00	3.610	1.100	36
25.00	4.141	1.262	32
30.00	4.641	1.415	30
35.00	5.117	1.560	27
40.00	5.574	1.699	26

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