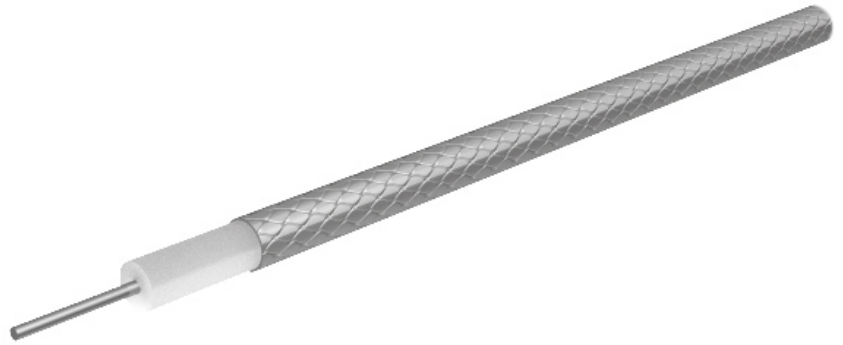


Hand formable (RG402) 50Ohm, 33GHz, 165°C, ø3.58mm no jacket SUCOFORM_141

Properties

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



Construction			
Component	Material	Detail	Diameter
Centre conductor	Steel, Copper + Silver plated	Wire	0.94 mm
Dielectric	PTFE (Polytetrafluoroethylene)		2.95 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 99%	3.58 mm

Electrical data	
Impedance	50 Ω +/-2Ω
Operating frequency	≤ 33 GHz
Capacitance	92 pF/m
Velocity of signal propagation	71 %
Signal delay	4.7 ns/m
Screening effectiveness	100 dB at frequency 0.01 GHz ... 18GHz
Insulation resistance	100000000 MΩ*m
Inner conductor resistance	64 Ω/km
Operating Voltage (at sea level)	≤ 1.9 kVrms
Test voltage (50 Hz/1 min)	≤ 5 kVrms

Mechanical data	
Weight	approx. 40 g/m
Static bending radius	≥ 8 mm
Repeated bending radius	40 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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SUCOFORM_141

Environmental data	
Fire characteristics	contains halogene

Suitable connectors	
Cable group	Y12

Ordering information		
Item number	Item description	Available as assembly only
22511925	SUCOFORM_141	No

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 =	0.355	b coefficient typical =	0.04
fmax =	33	P at 1 GHz =	425
Frequency GHz	Nom. attenuation (dB/m)	Nom. attenuation (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	0.167	0.051	950
0.40	0.241	0.073	672
0.60	0.299	0.091	549
0.80	0.350	0.107	475
1.00	0.395	0.120	425
1.20	0.437	0.133	388
1.40	0.476	0.145	359
1.60	0.513	0.156	336
1.80	0.548	0.167	317
2.00	0.582	0.177	301
4.00	0.870	0.265	212
6.00	1.110	0.338	174
8.00	1.324	0.404	150
10.00	1.523	0.464	134
15.00	1.975	0.602	110
20.00	2.388	0.728	95
25.00	2.775	0.846	85
30.00	3.144	0.958	78
33.00	3.359	1.024	74

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