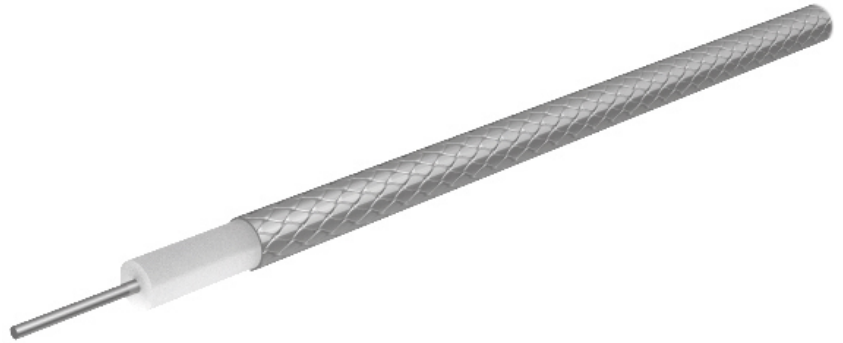


Hand formable (RG402) 50Ohm, 30GHz, 200°C, ø3.58mm no jacket SUCOFORM_141_CT

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	Aluminium, Copper clad, Silver plated	Wire	1.15 mm
Dielectric	Low density fluorine polymer		2.95 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 99%	3.58 mm

Electrical data	
Impedance	50 Ω +/-2Ω
Operating frequency	≤ 30 GHz
Capacitance	80 pF/m
Velocity of signal propagation	83 %
Signal delay	4 ns/m
Screening effectiveness	100 dB at frequency 0.01 GHz ... 18GHz
Insulation resistance	10000000 MΩ*m
Operating Voltage (at sea level)	≤ 0.5 kVrms
Phase vs temperature	500 ppm within the temperature range -55 ... 125 °C
Test voltage (50 Hz/1 min)	≤ 1.1 kVrms

Mechanical data	
Weight	approx. 33 g/m
Static bending radius	≥ 8 mm
Dynamic bending radius	< 40 mm

Hand formable (RG402) 50Ohm, 30GHz, 200°C, Ø3.58mm no jacket

SUCOFORM_141_CT

Environmental data			
Operation temperature		-65 °C ... 200 °C	
Installation temperature		-20 °C ... 60 °C	
Fire characteristics		contains halogene	
Compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
85063282	RoHS 2011/65/EU and (EU) 2015/863	Compliant without exemption	
	REACH 1907/2006 Article 33 SVHC	Free of SVHC >0,1%	
Suitable connectors			
Cable group		Y25	
Ordering information			
Item number	Item description		Available as assembly only
85063282	SUCOFORM_141_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 =	0.317	b coefficient typical =	0.032
fmax =	30	P at 1 GHz =	360
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	0.148	0.045	805
0.40	0.213	0.065	569
0.60	0.265	0.081	465
0.80	0.309	0.094	402
1.00	0.349	0.106	360
1.20	0.386	0.118	329
1.40	0.420	0.128	304
1.60	0.452	0.138	285
1.80	0.483	0.147	268
2.00	0.512	0.156	255
4.00	0.762	0.232	180
6.00	0.968	0.295	147
8.00	1.153	0.351	127
10.00	1.322	0.403	114
15.00	1.708	0.521	93
20.00	2.058	0.627	80
25.00	2.385	0.727	72
30.00	2.696	0.822	66

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