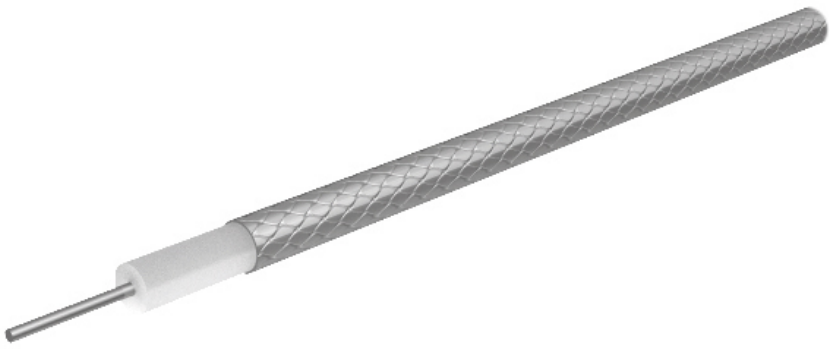
DATA SHEET

Hand formable (RG405) 50Ohm, 40GHz, 165°C, ø2.1mm, no jacket

SUCOFORM_86

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	0.53 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 1 GHz ... 18GHz
Insulation resistance	100000000 MΩ*m
Inner conductor resistance	199 Ω/km
Outer conductor resistance	39 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

Material compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
22511613	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	Y16

Ordering information		
Item number	Item description	Available as assembly only
22511613	SUCOFORM_86	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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