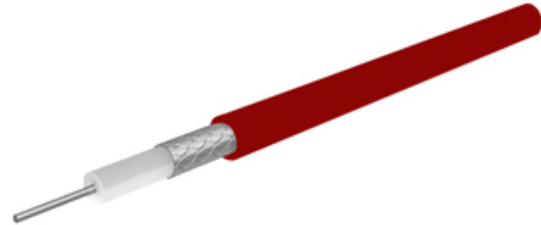


Hand formable (RG405) 50Ohm, 40GHz, 85°C, ø3.2 mm, PE jacket

SUCOFORM_86_PE

Properties

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



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
Jacket	PE (Polyethylene)	RAL 3004 - rd	3.2 mm +/- 0.1 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	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. 19 g/m
Static bending radius	≥ 6 mm
Repeated bending radius	20 mm (bendings, up to 50)

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Environmental data			
Operation temperature	-40 °C ... 85 °C		
Installation temperature	-20 °C ... 60 °C		
Fire characteristics	contains halogene		
Material compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
22511631	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	
22511631	SUCOFORM_86_PE	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 =	0.6283	b coefficient typical =	0.04
fmax =	40	P at 1 GHz =	30
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	0.289	0.088	67
0.40	0.413	0.126	47
0.60	0.511	0.156	39
0.80	0.594	0.181	34
1.00	0.668	0.204	30
1.20	0.736	0.224	27
1.40	0.799	0.244	25
1.60	0.859	0.262	24
1.80	0.915	0.279	22
2.00	0.969	0.295	21
4.00	1.417	0.432	15
6.00	1.779	0.542	12
8.00	2.097	0.639	11
10.00	2.387	0.728	9
15.00	3.033	0.925	8
20.00	3.610	1.100	7
25.00	4.141	1.262	6
30.00	4.641	1.415	5
35.00	5.117	1.560	5
40.00	5.574	1.699	5

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