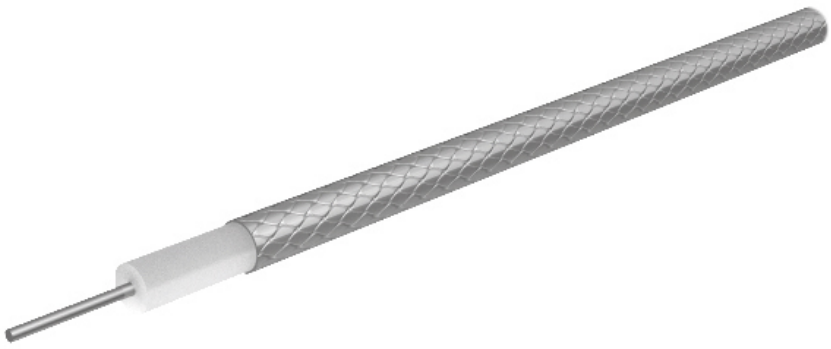
DATA SHEET

Hand formable, 50 Ohm, 40 GHz, 165°C, ø1.19 mm, no jacket

SUCOFORM_47_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	0.31 mm
Dielectric	PTFE (Polytetrafluoroethylene)		0.94 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 100%	1.19 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
Operating Voltage (at sea level)	≤ 1 kVrms
Test voltage (50 Hz/1 min)	≤ 2 kVrms

Mechanical data	
Weight	approx. 5.5 g/m
Static bending radius	≥ 3.18 mm

Environmental data	
Operation temperature	-65 °C ... 165 °C
Installation temperature	-20 °C ... 60 °C
Fire characteristics	contains halogene

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Material compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
23033515	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	Y2

Ordering information		
Item number	Item description	Available as assembly only
23033515	SUCOFORM_47_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 =	**1.133**	b coefficient typical =	**0.0396**
fmax =	**40**	P at 1 GHz =	**32**
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	0.515	0.157	72
0.40	0.732	0.223	51
0.60	0.901	0.275	41
0.80	1.045	0.319	36
1.00	1.173	0.357	32
1.20	1.289	0.393	29
1.40	1.396	0.426	27
1.60	1.497	0.456	25
1.80	1.591	0.485	24
2.00	1.682	0.513	23
4.00	2.424	0.739	16
6.00	3.013	0.918	13
8.00	3.521	1.073	11
10.00	3.979	1.213	10
15.00	4.982	1.519	8
20.00	5.859	1.786	7
25.00	6.655	2.028	6
30.00	7.394	2.254	6
35.00	8.089	2.466	5
40.00	8.750	2.667	5

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DOCUMENT PIM-P677 / Date of publication: 02.10.2026 / uncontrolled copy

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