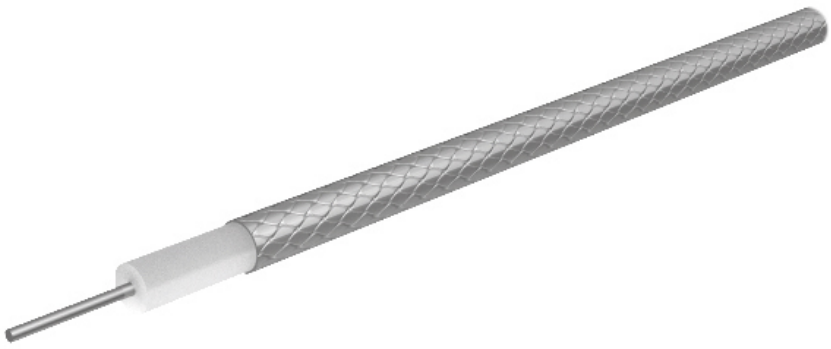
DATA SHEET

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

SUCOFORM_141_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	0.95 mm
Dielectric	PTFE (Polytetrafluoroethylene)		2.95 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 100%	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 1 GHz ... 18GHz
Insulation resistance	100000000 MΩ*m
Inner conductor resistance	25 Ω/km
Outer conductor resistance	18 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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Environmental data	
Fire characteristics	contains halogene

Material compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
22511635	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	Y12

Ordering information		
Item number	Item description	Available as assembly only
22511635	SUCOFORM_141_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 =	**0.355**	b coefficient typical =	**0.04**
fmax =	**33**	P at 1 GHz =	**425**
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	0.167	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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