

## Hand formable (RG402) 50Ohm 33GHz, 85°C, ø4.47mm LSFH jacket SUCOFORM\_141\_CU\_LSFH-01

### 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
- LSFH jacket



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
Jacket	LSFH (modified polyethylene)	RAL 2003 - or	4.47 mm +/- 0.07 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 0.1 GHz ... 4GHz
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. 55 g/m
Static bending radius	≥ 8 mm
Repeated bending radius	40 mm (bendings, up to 50)

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Environmental data	
Operation temperature	-40 °C ... 85 °C
Installation temperature	-20 °C ... 60 °C
Flame propagation standard	IEC 60332-2 UL 1581 § 1100
Fire characteristics	contains halogene

Material compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
84003502	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
84003502	SUCOFORM_141_CU_LSFH-01	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 =	<b>0.355</b>	b coefficient typical =	<b>0.04</b>
fmax =	<b>33</b>	P at 1 GHz =	<b>90</b>
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	0.167	0.051	201
0.40	0.241	0.073	142
0.60	0.299	0.091	116
0.80	0.350	0.107	101
1.00	0.395	0.120	90
1.20	0.437	0.133	82
1.40	0.476	0.145	76
1.60	0.513	0.156	71
1.80	0.548	0.167	67
2.00	0.582	0.177	64
4.00	0.870	0.265	45
6.00	1.110	0.338	37
8.00	1.324	0.404	32
10.00	1.523	0.464	28
15.00	1.975	0.602	23
20.00	2.388	0.728	20
25.00	2.775	0.846	18
30.00	3.144	0.958	16
33.00	3.359	1.024	16

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