

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	1000000000 MΩ*m
Inner conductor resistance	25 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)

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

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Environmental data		
Fire characteristics		contains halogene
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 =	0.355	b coefficient typical =	0.04
fmax =	33	P at 1 GHz =	90
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	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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