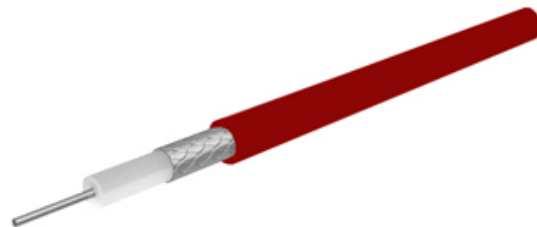


Hand formable (RG402) 50Ohm, 33GHz, 85°C, ø4.6 mm, PE jacket

SUCOFORM_141_CU_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
- Non-magnetic
- PE 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	PE (Polyethylene)	RAL 3004 - rd	4.6 mm +/- 0.1 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 ... 18GHz
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. 47 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	
Fire characteristics		contains halogene	
Suitable connectors			
Cable group		Y12	
Ordering information			
Item number		Item description	
22511639		SUCOFORM_141_CU_PE	
		Available as assembly only	
		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 coefficient typical =	
0.355		0.04	
fmax =		P at 1 GHz =	
33		90	
Frequency		Nom. attenuation	
GHz		(dB/m)	
		sea level 25°C ambient temperature	
0.20		0.167	
0.40		0.241	
0.60		0.299	
0.80		0.350	
1.00		0.395	
1.20		0.437	
1.40		0.476	
1.60		0.513	
1.80		0.548	
2.00		0.582	
4.00		0.870	
6.00		1.110	
8.00		1.324	
10.00		1.523	
15.00		1.975	
20.00		2.388	
25.00		2.775	
30.00		3.144	
33.00		3.359	
		Nom. attenuation	
		(dB/ft)	
		sea level 25°C ambient temperature	
		sea level 40°C ambient temperature	
		(W)	
		201	
		142	
		116	
		101	
		90	
		82	
		76	
		71	
		67	
		64	
		45	
		37	
		32	
		28	
		23	
		20	
		18	
		16	
		16	

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