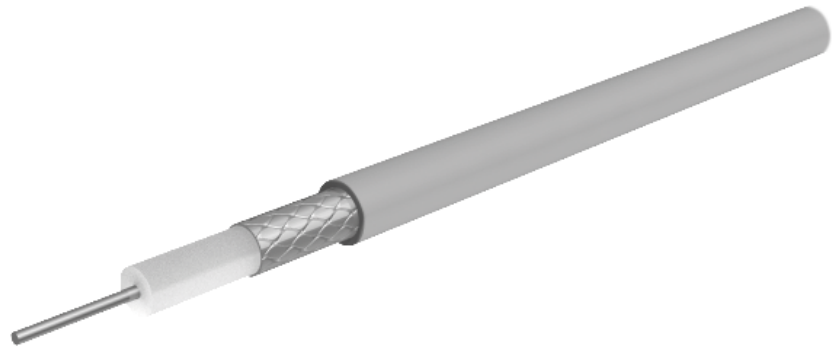


Hand formable (RG402) 50Ohm, 6GHz, 165°C, Ø4.1mm, FEP jacket

SUCOFORM_141_CU_CMP

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
- Plenum rated



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	FEP (Fluorinated ethylene propylene)	RAL 9010 - wh	4.1 mm +/- 0.1 mm

Electrical data	
Impedance	50 Ω +/- 2Ω
Operating frequency	≤ 6 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	-65 °C ... 165 °C
Installation temperature	-20 °C ... 60°C
Flame propagation standard	IEC 60332-1
	UL 1581 § 1080 (VW-1)
	ETL Listed UL444/CMP/FT6
Fire characteristics	contains halogene

Suitable connectors	
Cable group	Y12

Ordering information		
Item number	Item description	Available as assembly only
85031886	SUCOFORM_141_CU_CMP	No

Power Matrix			
Calculation: typical Attenuation [formula: $(a \cdot f^{0.5} + b \cdot f)$] and maximum Power CW [formula: $(p/f^{0.5})$]			
a coefficient typical =	0.355	b coefficient typical =	0.04
fmax =	6.0	P at 1 GHz =	560.0
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	1252
0.40	0.241	0.073	885
0.60	0.299	0.091	723
0.80	0.350	0.107	626
1.00	0.395	0.120	560
1.20	0.437	0.133	511
1.40	0.476	0.145	473
1.60	0.513	0.156	443
1.80	0.548	0.167	417
2.00	0.582	0.177	396
4.00	0.870	0.265	280
6.00	1.110	0.338	229

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