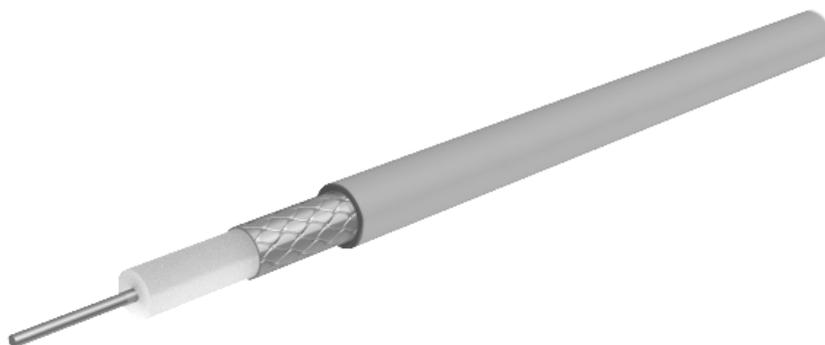


Hand formable (RG402) 50Ohm, 6GHz, 165°C, Ø4.1mm, FEP jacket

SUCOFORM_141_LA_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	1.04 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	85 pF/m
Velocity of signal propagation	78.2 %
Signal delay	4.3 ns/m
Screening effectiveness	100 dB at frequency 0.1 GHz ... 18GHz
Insulation resistance	100000000 MΩ*m
Operating Voltage (at sea level)	≤ 1.9 kVrms
Test voltage (50 Hz/1 min)	≤ 5 kVrms

Mechanical data	
Weight	approx. 46 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	ETL Listed UL444/CMP/FT6 contains halogene

Suitable connectors	
Cable group	Y30 - 141

Ordering information		
Item number	Item description	Available as assembly only
85031887	SUCOFORM_141_LA_CU_CMP	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 =	0.3381	b coefficient typical =	0.0186
fmax =	6	P at 1 GHz =	620
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	0.155	0.047	1386
0.40	0.221	0.067	980
0.60	0.273	0.083	800
0.80	0.317	0.097	693
1.00	0.357	0.109	620
1.20	0.393	0.120	566
1.40	0.426	0.130	524
1.60	0.457	0.139	490
1.80	0.487	0.148	462
2.00	0.515	0.157	438
4.00	0.751	0.229	310
6.00	0.940	0.286	253

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