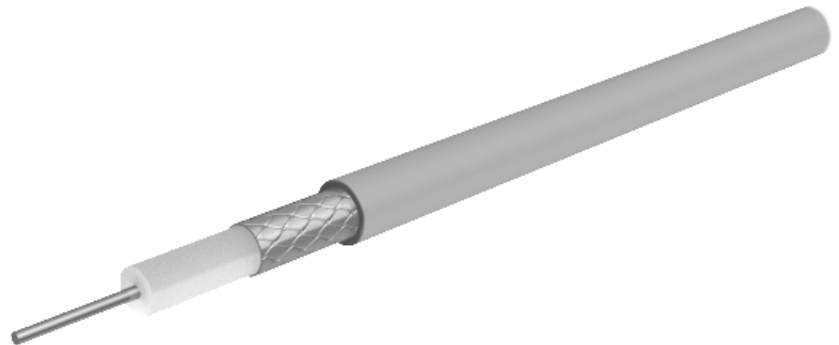


Hand formable, 50 Ohm, 6 GHz, 165°C, ø3.65 mm, FEP jacket

SUCOFORM_122_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	0.94 mm
Dielectric	PTFE (Polytetrafluoroethylene)		2.65 mm
Outer conductor	Copper, Tin plated	Tin soaked braid	3.1 mm
Jacket	FEP (Fluorinated ethylene propylene)	RAL 9003 - wh	3.65 mm +/- 0.1 mm

Electrical data	
Impedance	50 Ω +/- 2Ω
Operating frequency	≤ 6 GHz
Capacitance	85 pF/m
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. 30.5 g/m
Static bending radius	≥ 5 mm
Repeated bending radius	18 mm (bendings, up to 15)

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

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Environmental data		
Fire characteristics		contains halogene
Suitable connectors		
Cable group		Y31 - 122
Ordering information		
Item number	Item description	Available as assembly only
85072331	SUCOFORM_122_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 =	0.333	b coefficient typical =	0.04
fmax =	6.0	P at 1 GHz =	536.0
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	0.157	0.048	1199
0.40	0.227	0.069	847
0.60	0.282	0.086	692
0.80	0.330	0.101	599
1.00	0.373	0.114	536
1.20	0.413	0.126	489
1.40	0.450	0.137	453
1.60	0.485	0.148	424
1.80	0.519	0.158	400
2.00	0.551	0.168	379
4.00	0.826	0.252	268
6.00	1.056	0.322	219

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