DATA SHEET

Hand formable, 50 Ohm, 6 GHz, 165°C, ø6.2 mm, FEP jacket

SUCOFORM_222_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	1.67 mm
Dielectric	PTFE (Polytetrafluoroethylene)		4.8 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 100%	5.65 mm
Jacket	FEP (Fluorinated ethylene propylene)	RAL 9003 - wh	6.2 mm +/- 0.1 mm

Electrical data	
Impedance	50 Ω +/-1Ω
Operating frequency	≤ 6 GHz
Capacitance	83 pF/m
Velocity of signal propagation	76.7 %
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)	≤ 3.5 kVrms
Test voltage (50 Hz/1 min)	≤ 5 kVrms

Mechanical data	
Weight	approx. 100.5 g/m
Static bending radius	≥ 25 mm
Repeated bending radius	120 mm (bendings, up to 15)

Environmental data	
Operation temperature	-65 °C ... 165 °C
Installation temperature	-20 °C ... 60 °C
Flame propagation standard	IEC 60332-2
	UL 1581 § 1080 (VW-1)

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Environmental data	
	ETL Listed UL444/CMP/FT6
Fire characteristics	contains halogene
Smoke test	NFPA-262 (UL910)
UV resistance	ISO 4892-2A

Suitable connectors	
Cable group	Y32 - 222

Ordering information		
Item number	Item description	Available as assembly only
85071854	SUCOFORM_222_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 =	**0.199**	b coefficient typical =	**0.031**
fmax =	**6**	P at 1 GHz =	**930**
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	0.095	0.029	2080
0.40	0.138	0.042	1470
0.60	0.173	0.053	1201
0.80	0.203	0.062	1040
1.00	0.230	0.070	930
1.20	0.255	0.078	849
1.40	0.279	0.085	786
1.60	0.301	0.092	735
1.80	0.323	0.098	693
2.00	0.343	0.105	658
4.00	0.522	0.159	465
6.00	0.673	0.205	380

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