

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

Hand formable, 50 Ohm, 6 GHz, 165°C, Ø3.65 mm, FEP jacket

SUCOFORM_122_LA_CU_CMP

Environmental data			
Fire characteristics		contains halogene	
Material compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
85072331	RoHS 2011/65/EU and (EU) 2015/863	Compliant without exemption	
	REACH 1907/2006 Article 33 SVHC	Compliant	
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	P at 1 GHz =	536
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

HUBER+SUHNER is certified by ISO 9001, ISO 14001, ISO 45001, IATF 16949, AS/EN 9100 and ISO/TS 22163-IRIS. Waiver: Facts and figures herein are for information only and do not represent any warranty of any kind.
DOCUMENT PIM-P479 / Date of publication: 03.04.2025 / uncontrolled copy