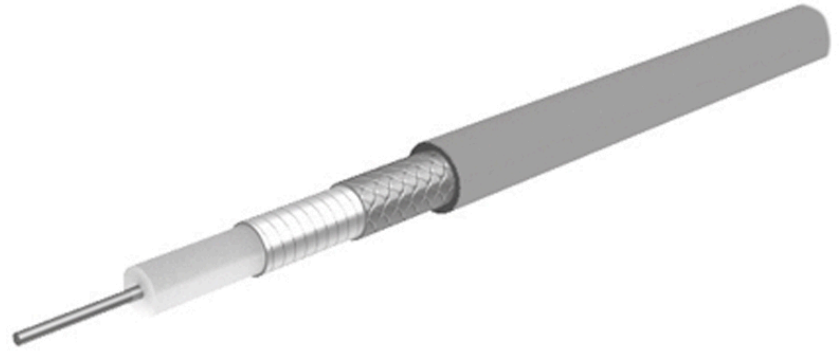


Flexible, 50 Ohm, 26.5 GHz, 165 °C, ø5.5 mm, FEP jacket

SUCOFLEX_104

Properties

- Applicable up to 26.5 GHz
- Excellent insertion and return loss
- Extremely reliable and robust
- A wide range of cables, connectors and armours
- MIL qualified



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	
Dielectric	PTFE (Polytetrafluoroethylene)		
Outer conductor	Copper, Silver plated	Wrapped foil, 100%	
Outer conductor	Copper, Silver plated	Braid	
Jacket	FEP (Fluorinated ethylene propylene)	RAL 5015 - bl	5.5 mm

Electrical data	
Impedance	50 Ω
Operating frequency	≤ 26.5 GHz
Capacitance	87 pF/m
Velocity of signal propagation	77 %
Signal delay	4.3 ns/m
Screening effectiveness	90 dB at frequency 0.1 GHz ... 18GHz
Insulation resistance	100000000 MΩ*m
Operating Voltage (at sea level)	≤ 2.6 kVrms

Mechanical data	
Weight	approx. 72 g/m
Static bending radius	≥ 16 mm
Dynamic bending radius	≥ 25 mm

Environmental data	
Operation temperature	-55 °C ... 165 °C
Flame propagation standard	MIL-T-87104 § 4.6.4.8
Fire characteristics	contains halogene

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SUCOFLEX_104

Compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
22510839	RoHS 2011/65/EU and (EU) 2015/863	Compliant without exemption	n/a
	REACH 1907/2006 Article 33 SVHC	Free of SVHC >0,1%	n/a

Ordering information		
Item number	Item description	Available as assembly only
22510839	SUCOFLEX_104	Yes

Power Matrix			
Calculation: typical Attenuation [formula: (a*f^0.5 + b*f)] and maximum Power CW [formula: (p/f^0.5)]			
a coefficient typical =	0.2291	b coefficient typical =	0.0071
fmax =	26.5	P at 1 GHz =	907.0
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	0.104	0.032	2028
0.40	0.148	0.045	1434
0.60	0.182	0.055	1171
0.80	0.211	0.064	1014
1.00	0.236	0.072	907
1.20	0.259	0.079	828
1.40	0.281	0.086	767
1.60	0.301	0.092	717
1.80	0.320	0.098	676
2.00	0.338	0.103	641
4.00	0.487	0.148	454
6.00	0.604	0.184	370
8.00	0.705	0.215	321
10.00	0.795	0.242	287
20.00	1.167	0.356	203
26.50	1.368	0.417	176

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