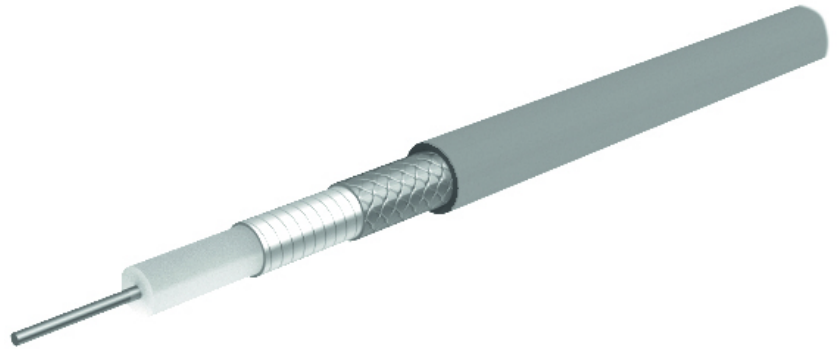


Flexible, 50 Ohm, 26.5 GHz, 85°C, ø6.6 mm, LSFH jacket

SUCOFLEX_104_I

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	LSFH (modified polyethylene)	RAL 9005 - bk	6.6mm

Electrical data	
Impedance	50 Ω
Operating frequency	≤ 26.5 GHz
Capacitance	87 pF
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 kV

Mechanical data	
Weight	approx. 82 g/m
Static bending radius	≥ 16 mm
Dynamic bending radius	< 25 mm

Environmental data	
Operation temperature	-40 °C ... 85°C
Flame propagation standard	IEC 60332-1 UL 1581 § 1080 (VW-1)
Fire characteristics	contains halogene

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Suitable connectors	
Cable group	U98

Ordering information		
Item number	Item description	Available as assembly only
22512178	SUCOFLEX_104_I	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 =	600.0
Frequency	Nom. attenuation	Nom. attenuation Max.	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	0.104	0.032	1342
0.40	0.148	0.045	949
0.60	0.182	0.055	775
0.80	0.211	0.064	671
1.00	0.236	0.072	600
1.20	0.259	0.079	548
1.40	0.281	0.086	507
1.60	0.301	0.092	474
1.80	0.320	0.098	447
2.00	0.338	0.103	424
4.00	0.487	0.148	300
6.00	0.604	0.184	245
8.00	0.705	0.215	212
10.00	0.795	0.242	190
20.00	1.167	0.356	134
26.50	1.368	0.417	117

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