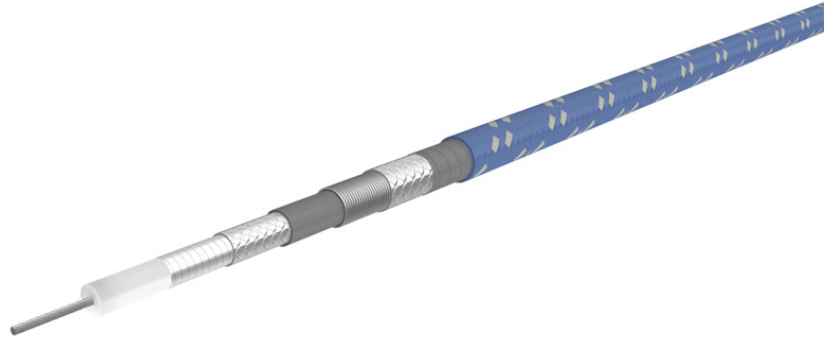


High-flexible, 50 Ohm, 26.5 GHz, 165°C, ø7.7 mm, PTFE jacket SUCOFLEX_526_S

Properties

- Applicable up to 26.5 GHz
- High phase- and amplitude stability with flexure and movement
- Excellent insertion and return loss
- Precise and repeatable measurements
- Long life time - lower measurement cost



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Strand, Low-loss	
Dielectric	PTFE (Polytetrafluoroethylene)		
Outer conductor	Copper, Silver plated	Wrapped foil, 100%	
Outer braid	Copper, Silver plated	Braid	
Jacket	FEP (Fluorinated ethylene propylene)		
Armour	Steel	Wire helix (Spiral)	
Armour	Steel	Braid	
Armour	Helically wrapped PTFE-Silicone (glued) tape	Tape	
Jacket	PTFE (Polytetrafluoroethylene)	Braid, RAL 5023 - bl	7.7mm

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 1 GHz ... 18GHz
Insulation resistance	100000000 MΩ*m
Operating Voltage (at sea level)	≤ 1.2 kV

Mechanical data	
Weight	approx. 144 g/m
Static bending radius	25.4 mm

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SUCOFLEX_526_S

Environmental data	
Operation temperature	-55 °C ... 165°C
Fire characteristics	contains halogene

Additional Information
Only available as cable assembly, not sold as bulk

Suitable connectors	
Cable group	U98

Ordering information		
Item number	Item description	Available as assembly only
85082728	SUCOFLEX_526_S	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 =	0.229	b coefficient typical =	0.0071
fmax =	26.5	P at 1 GHz =	800.0
Frequency GHz	Nom. attenuation (dB/m)	Nom. attenuation Max. (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	1789
0.40	0.148	0.045	1265
0.60	0.182	0.055	1033
0.80	0.211	0.064	894
1.00	0.236	0.072	800
1.20	0.259	0.079	730
1.40	0.281	0.086	676
1.60	0.301	0.092	632
1.80	0.320	0.098	596
2.00	0.338	0.103	566
4.00	0.486	0.148	400
6.00	0.604	0.184	327
8.00	0.705	0.215	283
10.00	0.795	0.242	253
20.00	1.166	0.355	179
26.50	1.367	0.417	155

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