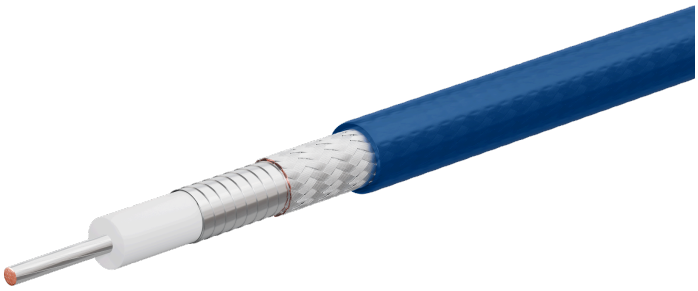
DATA SHEET

High-flexible, 50 Ohm, 26.5 GHz, 85°C, ø5.5 mm, PUR jacket

SUCOFLEX_526_E

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
- RS - Rotary Swaged centre conductor



Construction			
Component	**Material**	**Detail**	**Diameter**
Centre conductor	Copper, Silver plated	Strand, Rotary swaged	
Dielectric	PTFE (Polytetrafluoroethylene)		
Outer conductor	Copper, Silver plated	Wrapped foil, 100%	
Outer braid	Copper, Silver plated	Braid	
Jacket	PUR (Polyurethane)	RAL 5009 - 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	≥90dB
Insulation resistance	100000000 MΩ*m
Operating Voltage (at sea level)	≤ 1.2 kVrms

Mechanical data	
Weight	approx. 66 g/m
Static bending radius	≥ 16 mm
Dynamic bending radius	≥ 25 mm

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Environmental data	
Operation temperature	-40 °C ... 85 °C
Fire characteristics	contains halogene

Material compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
85207854	RoHS 2011/65/EU and (EU) 2015/863	Compliant without exemption	
	REACH 1907/2006 Article 33 SVHC	Free of SVHC >0,1%	

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
85207854	SUCOFLEX_526_E	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 =	**600**
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	0.104	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	0.486	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	1.166	0.355	134
26.50	1.367	0.417	117

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