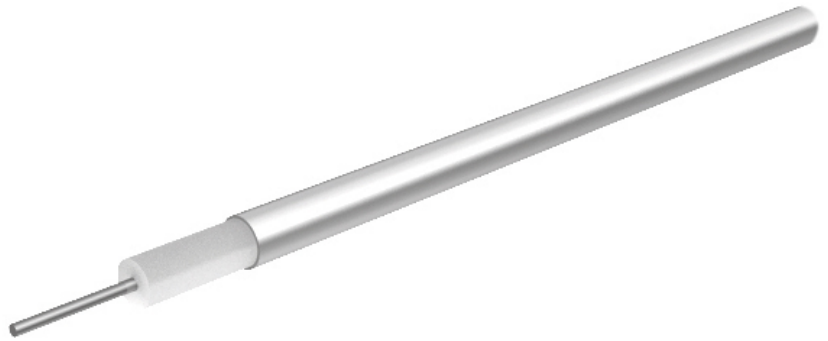


Semi-rigid, 50 Ohm, 18 GHz, 100°C, ø6.35 mm, Aluminium/Tin plated

SR_250_AL_TP

Properties

- Formstable cable for precise, time saving installations
- Excellent RF screening performance
- Highly efficient RF signal distribution



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	1.63 mm
Dielectric	PTFE (Polytetrafluoroethylene)		5.31 mm
Outer conductor	Aluminum / TP	Tube, 100%	6.35 mm

Electrical data	
Impedance	50 Ω +/-0.5Ω
Operating frequency	≤ 18 GHz
Capacitance	97.1 pF/m
Velocity of signal propagation	69.5 %
Signal delay	4.8 ns/m
Screening effectiveness	120 dB at frequency 0.1 GHz ... 18GHz
Insulation resistance	100000000 MΩ*m
Operating Voltage (at sea level)	≤ 3 kVrms
Test voltage (50 Hz/1 min)	≤ 7.5 kVrms

Mechanical data	
Weight	approx. 88.6 g/m
Static bending radius	≥ 6.35 mm

Environmental data	
Operation temperature	-55 °C ... 100 °C
Installation temperature	-20 °C ... 60 °C
Fire characteristics	contains halogene

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SR_250_AL_TP

Material compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
22810708	RoHS 2011/65/EU and (EU) 2015/863	Compliant without exemption	
	REACH 1907/2006 Article 33 SVHC	Compliant	

Suitable connectors	
Cable group	Y7

Ordering information		
Item number	Item description	Available as assembly only
22810708	SR_250_AL_TP_COIL	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 =	0.1963	b coefficient typical =	0.03967
fmax =	18.0	P at 1 GHz =	1400.0
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	0.096	0.029	3130
0.40	0.140	0.043	2214
0.60	0.176	0.054	1807
0.80	0.207	0.063	1565
1.00	0.236	0.072	1400
1.20	0.263	0.080	1278
1.40	0.288	0.088	1183
1.60	0.312	0.095	1107
1.80	0.335	0.102	1043
2.00	0.357	0.109	990
4.00	0.551	0.168	700
6.00	0.719	0.219	572
8.00	0.873	0.266	495
10.00	1.017	0.310	443
18.00	1.547	0.472	330

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