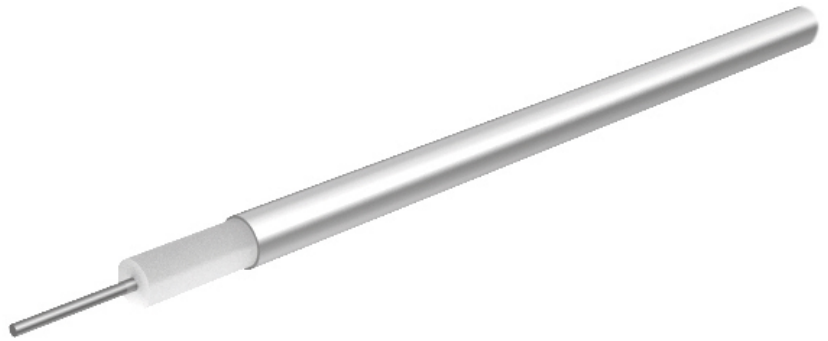


Semi-rigid, 50 Ohm, 40 GHz, 125°C, ø2.2 mm, Aluminium/Tin plated SR_86_AL_TP_M17

Properties

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



Construction			
Component	Material	Detail	Diameter
Centre conductor	Steel, Copper + Silver plated	Wire	0.51 mm
Dielectric	PTFE (Polytetrafluoroethylene)		1.68 mm
Outer conductor	Aluminum / TP	Tube, 100%	2.2 mm

Electrical data	
Impedance	50 Ω +/-1.5Ω
Operating frequency	≤ 40 GHz
Capacitance	105 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)	≤ 1.5 kVrms
Test voltage (50 Hz/1 min)	≤ 5 kVrms

Mechanical data	
Weight	approx. 11.9 g/m
Static bending radius	≥ 1.78 mm

Environmental data	
Operation temperature	-40 °C ... 125 °C
Installation temperature	-20 °C ... 60°C
Fire characteristics	contains halogene

Suitable connectors	
Cable group	Y3

Semi-rigid, 50 Ohm, 40 GHz, 125°C, Ø2.2 mm, Aluminium/Tin plated

SR_86_AL_TP_M17

Ordering information		
Item number	Item description	Available as assembly only
22820167	SR_86_AL_TP_M17_2M	No
22830167	SR_86_AL_TP_M17_3M	No
22810167	SR_86_AL_TP_M17_COIL	No

Power Matrix			
Calculation: typical Attenuation [formula: $(a \cdot f^{0.5} + b \cdot f)$] and maximum Power CW [formula: $(p/f^{0.5})$]			
a coefficient typical =	0.58454	b coefficient typical =	0.03967
fmax =	40.0	P at 1 GHz =	130.0
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	0.269	0.082	291
0.40	0.386	0.118	206
0.60	0.477	0.145	168
0.80	0.555	0.169	145
1.00	0.624	0.190	130
1.20	0.688	0.210	119
1.40	0.747	0.228	110
1.60	0.803	0.245	103
1.80	0.856	0.261	97
2.00	0.906	0.276	92
4.00	1.328	0.405	65
6.00	1.670	0.509	53
8.00	1.971	0.601	46
10.00	2.245	0.684	41
20.00	3.408	1.039	29
40.00	5.284	1.611	21

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DOCUMENT PIM-P1096 / Date of publication: 14.03.2024 / uncontrolled copy