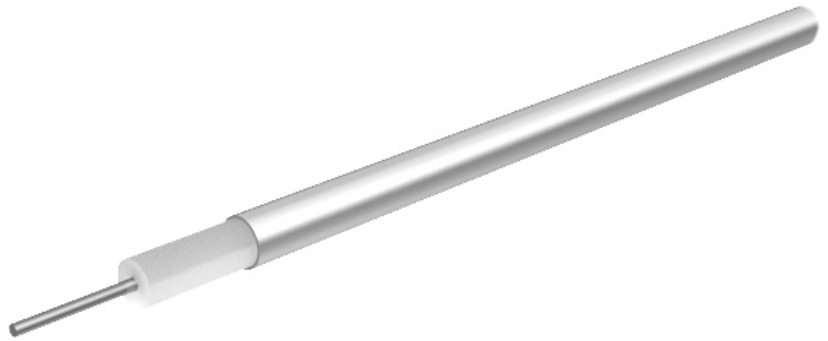


Semi-rigid, 75 Ohm, 63 GHz, 140°C, Ø2.2 mm, Copper/Tin plated

SR_86_75_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	Steel, Copper + Silver plated	Wire	0.29 mm
Dielectric	PTFE (Polytetrafluoroethylene)		1.73 mm
Outer conductor	Copper, Tin plated	Tube, 100%	2.2 mm

Electrical data	
Impedance	75 Ω +/-2Ω
Operating frequency	≤ 63 GHz
Velocity of signal propagation	69.5 %
Screening effectiveness	120 dB at frequency 0.1 GHz ... 18GHz
Insulation resistance	100000000 MΩ*m
Operating Voltage (at sea level)	≤ 1.2 kVrms
Test voltage (50 Hz/1 min)	≤ 2.5 kVrms

Mechanical data	
Weight	approx. 2.7 g/m
Static bending radius	≥ 3.18 mm

Environmental data	
Operation temperature	-55 °C ... 140 °C
Fire characteristics	contains halogene

Suitable connectors	
Cable group	Y4

Semi-rigid, 75 Ohm, 63 GHz, 140°C, Ø2.2 mm, Copper/Tin plated

SR_86_75_TP

Ordering information		
Item number	Item description	Available as assembly only
22810164	SR_86_75_TP_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 =	0.5672	b coefficient typical =	0.0854
fmax =	63.0	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	0.271	0.083	291
0.40	0.393	0.120	206
0.60	0.491	0.150	168
0.80	0.576	0.176	145
1.00	0.653	0.199	130
1.20	0.724	0.221	119
1.40	0.791	0.241	110
1.60	0.854	0.260	103
1.80	0.915	0.279	97
2.00	0.973	0.297	92
4.00	1.476	0.450	65
6.00	1.902	0.580	53
8.00	2.287	0.697	46
10.00	2.648	0.807	41
20.00	4.245	1.294	29
40.00	7.003	2.135	21
60.00	9.518	2.901	17
63.00	9.882	3.012	16

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