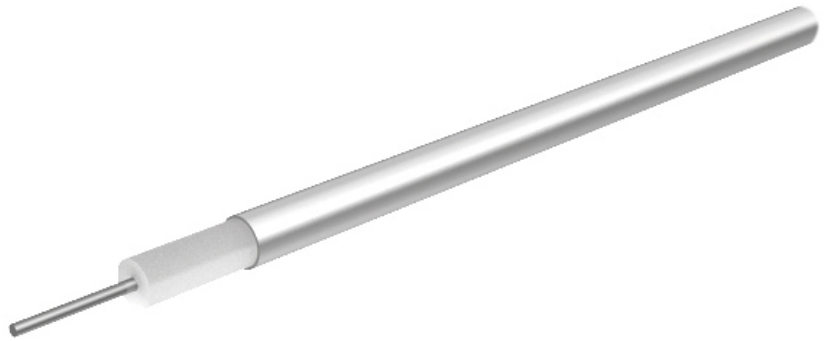


Semi-rigid, 50 Ohm, 40 GHz, 200°C, Ø2.2 mm, Aluminium/Tin plated, CT

SR_86_CT

Properties

- Excellent phase vs. temperature performance for phase stable applications
- Excellent RF screening performance
- Highly efficient RF signal distribution



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	0.62 mm
Dielectric	Low density fluorine polymer		1.71 mm
Outer conductor	Aluminum / TP	Tube, 100%	2.2 mm

Electrical data	
Impedance	50 Ω +/-2Ω
Operating frequency	≤ 40 GHz
Capacitance	92 pF/m
Inductance	0.2 µH/m
Velocity of signal propagation	80 %
Signal delay	4.2 ns/m
Screening effectiveness	120 dB at frequency 0.1 GHz ... 20GHz
Insulation resistance	100000000 MΩ*m
Phase vs temperature	100 ppm at temperature 0 ... 85°C

Mechanical data	
Weight	approx. 9.3 g/m
Static bending radius	≥ 3.18 mm

Environmental data	
Operation temperature	-55 °C ... 200 °C
Installation temperature	-20 °C ... 60°C
Fire characteristics	contains halogene

Semi-rigid, 50 Ohm, 40 GHz, 200°C, ø2.2 mm, Aluminium/Tin plated, CT

SR_86_CT

Suitable connectors	
Cable group	Y21
	Y21

Ordering information		
Item number	Item description	Available as assembly only
85075337	SR_86_CT	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 =	0.53	b coefficient typical =	0.019
fmax =	40.0	P at 1 GHz =	133.0
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	0.241	0.073	297
0.40	0.343	0.105	210
0.60	0.422	0.129	172
0.80	0.489	0.149	149
1.00	0.549	0.167	133
1.20	0.603	0.184	121
1.40	0.654	0.199	112
1.60	0.701	0.214	105
1.80	0.745	0.227	99
2.00	0.788	0.240	94
4.00	1.136	0.346	66
6.00	1.412	0.430	54
8.00	1.651	0.503	47
10.00	1.866	0.569	42
20.00	2.750	0.838	30
40.00	4.112	1.253	21

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