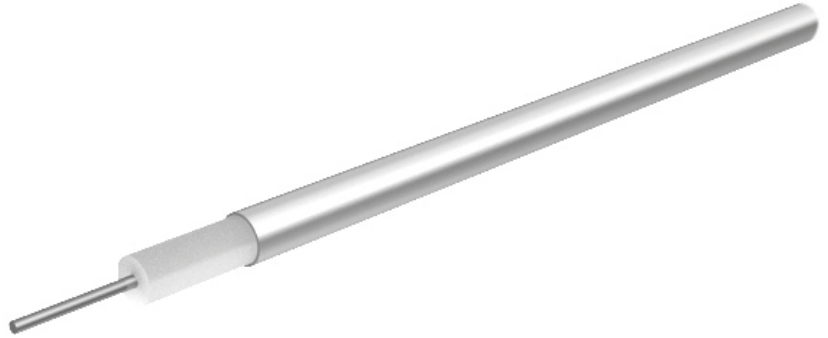


Semi-rigid, 50 Ohm, 40 GHz, 200°C, Ø2.2 mm, Aluminium/Tin plated, CT

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 within the temperature range 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

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SR_86_CT

Material compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
85075337	RoHS 2011/65/EU and (EU) 2015/863	Compliant without exemption	
	REACH 1907/2006 Article 33 SVHC	Compliant	

Suitable connectors	
Cable group	Y21

Ordering information		
Item number	Item description	Available as assembly only
85075337	SR_86_CT_3M	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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