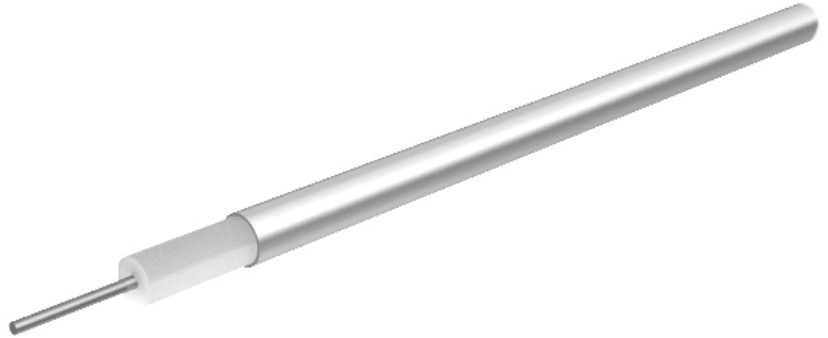


Semi-rigid, 50 Ohm, 33 GHz, 200°C, ø3.58 mm, Aluminium/Tin plated, CT

SR_141_CT

Properties

- Excellent phase vs. temperature performance for phase stable applications
- Formstable cable for precise, time saving installations applications up to 107 GHz
- Excellent RF screening performance Highly efficient RF signal distribution



Construction			
Component	Material	Detail	Diameter
Centre conductor	Aluminium, Copper clad, Silver plated	Wire	1.08 mm
Dielectric	Low density fluorine polymer		2.95 mm
Outer conductor	Aluminum / TP	Tube, 100%	3.58 mm

Electrical data	
Impedance	50 Ω +/-2Ω
Operating frequency	≤ 33 GHz
Capacitance	80.2 pF/m
Inductance	0.2 μH/m
Velocity of signal propagation	83 %
Signal delay	4 ns/m
Screening effectiveness	120 dB at frequency 0.1 GHz ... 18GHz
Insulation resistance	10000000 MΩ*m
Operating Voltage (at sea level)	≤ 1.9 kVrms
Phase vs temperature	400 ppm within the temperature range 0 ... 85 °C

Mechanical data	
Weight	approx. 18 g/m
Static bending radius	≥ 10 mm

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Environmental data			
Operation temperature		-55 °C ... 200 °C	
Installation temperature		-20 °C ... 60 °C	
Fire characteristics		contains halogene	
Material compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
85093931	RoHS 2011/65/EU and (EU) 2015/863	Compliant without exemption	
	REACH 1907/2006 Article 33 SVHC	Compliant	
Suitable connectors			
Cable group		Y26	
Ordering information			
Item number	Item description		Available as assembly only
85093931	SR_141_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 =	0.34	b coefficient typical =	0.02
fmax =	33.0	P at 1 GHz =	364.0
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	0.156	0.048	814
0.40	0.223	0.068	576
0.60	0.275	0.084	470
0.80	0.320	0.098	407
1.00	0.360	0.110	364
1.20	0.396	0.121	332
1.40	0.430	0.131	308
1.60	0.462	0.141	288
1.80	0.492	0.150	271
2.00	0.521	0.159	257
4.00	0.760	0.232	182
6.00	0.953	0.290	149
8.00	1.122	0.342	129
10.00	1.275	0.389	115
20.00	1.921	0.586	81
33.00	2.613	0.796	63

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