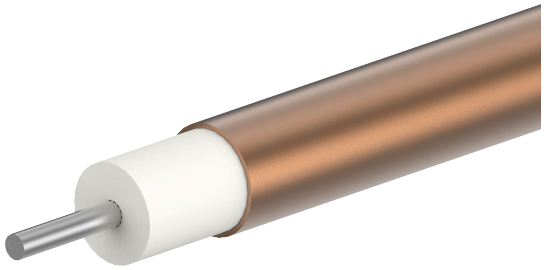
DATA SHEET

Semi-rigid, 50 Ohm, 33 GHz, 125°C, ø3.58 mm, IC: SPCW, OC: Copper

SR_141_100

Properties

- Formstable cable for precise, time saving installations
- Excellent RF screening performance
- Highly efficient RF signal distribution
- MIL-DTL-17 qualification testing successfully completed



Construction			
Component	**Material**	**Detail**	**Diameter**
Centre conductor	Steel, Copper + Silver plated	Wire	0.92 mm
Dielectric	PTFE (Polytetrafluoroethylene)		2.99 mm
Outer conductor	Copper	Tube, 100%	3.58 mm

Electrical data	
Impedance	50 Ω
Operating frequency	≤ 33 GHz
Capacitance	98.1 pF
Velocity of signal propagation	69.5 %
Signal delay	4.8 ns/m
Screening effectiveness	120dB
Insulation resistance	100000000 MΩ*m
Operating Voltage (at sea level)	≤ 1.9 kVrms
Test voltage (50 Hz/1 min)	≤ 5 kV

Mechanical data	
Weight	approx. 51.2 g/m
Static bending radius	≥ 6.35 mm
Repeated bending radius	6.35 mm

Environmental data	
Operation temperature	-55 °C ... 125 °C
Installation temperature	-20 °C ... 60 °C
Fire characteristics	contains halogene

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Material compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
85289534	RoHS 2011/65/EU and (EU) 2015/863	Compliant without exemption	
	REACH 1907/2006 Article 33 SVHC	Free of SVHC >0,1%	
85212397	RoHS 2011/65/EU and (EU) 2015/863	Compliant without exemption	
	REACH 1907/2006 Article 33 SVHC	Free of SVHC >0,1%	

Suitable connectors	
Cable group	Y5

Ordering information		
Item number	Item description	Available as assembly only
85289534	SR_141_100_1.5M	No
85212397	SR_141_100_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 =	**0.32544**	b coefficient typical =	**0.03967**
fmax =	**33**	P at 1 GHz =	**450**
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	0.153	0.047	1006
0.40	0.222	0.068	712
0.60	0.276	0.084	581
0.80	0.323	0.098	503
1.00	0.365	0.111	450
1.20	0.404	0.123	411
1.40	0.441	0.134	380
1.60	0.475	0.145	356
1.80	0.508	0.155	335
2.00	0.540	0.164	318
4.00	0.810	0.247	225
6.00	1.035	0.316	184
8.00	1.238	0.377	159
10.00	1.426	0.435	142
20.00	2.249	0.685	101
33.00	3.179	0.969	78

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