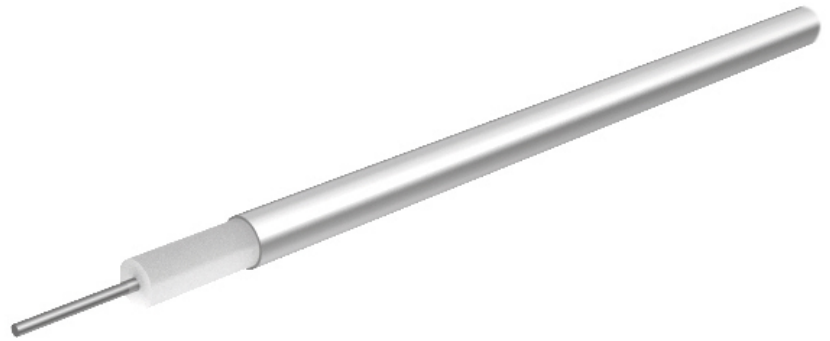


Semi-rigid, 50 Ohm, 40 GHz, 125°C, Ø2.95 mm, Copper/Tin plated

SR_118_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	Copper, Silver plated	Wire	0.81 mm
Dielectric	PTFE-LD		2.41 mm
Outer conductor	Copper, Tin plated	Tube, 100%	2.95 mm

Electrical data	
Impedance	50 Ω +/-1.5Ω
Operating frequency	≤ 40 GHz
Capacitance	76.2 pF/m
Velocity of signal propagation	80 %
Signal delay	4.17 ns/m
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)	≤ 3.5 kVrms

Mechanical data	
Weight	approx. 18 g/m
Static bending radius	≥ 9.5 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
22830073	RoHS 2011/65/EU and (EU) 2015/863	Compliant without exemption	
	REACH 1907/2006 Article 33 SVHC	Compliant	
22810073	RoHS 2011/65/EU and (EU) 2015/863	Compliant without exemption	
	REACH 1907/2006 Article 33 SVHC	Compliant	

Suitable connectors	
Cable group	Y10

Ordering information		
Item number	Item description	Available as assembly only
22830073	SR_118_TP_3M	No
22810073	SR_118_TP_COIL	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 =	0.3804	b coefficient typical =	0.00791
fmax =	40.0	P at 1 GHz =	598.0
Frequency GHz	Nom. attenuation (dB/m)	Nom. attenuation (dB/ft)	CW power (W)
	sea level 25°C ambient temperature	sea level 25°C ambient temperature	sea level 40°C ambient temperature
0.20	0.172	0.052	1337
0.40	0.244	0.074	946
0.60	0.299	0.091	772
0.80	0.347	0.106	669
1.00	0.388	0.118	598
1.20	0.426	0.130	546
1.40	0.461	0.141	505
1.60	0.494	0.151	473
1.80	0.525	0.160	446
2.00	0.554	0.169	423
4.00	0.792	0.241	299
6.00	0.979	0.298	244
8.00	1.139	0.347	211
10.00	1.282	0.391	189
20.00	1.859	0.567	134
40.00	2.722	0.830	95

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