



SUHNER® COAXIAL CABLE DATA SHEET

TYPE S 02132

Single screened coaxial cable

Cable Design



	Material	Detail	Diameter
Centre conductor:	CuSn	Strand-19 (0.19 mm)	0.94 mm
Dielectric:	SPE		2.3 mm
1. Outer conductor:	CuSn Braid	96% coverage	2.9 mm
Jacket:	PVC2	RAL 9005 - bk	4.5 mm +/-0.1
Print:	SUHNER SWITZERLAND S 02132 50 Ohm		

Electrical Data

Impedance:	50 Ω +/-2
Max. operating frequency:	2 GHz
Capacitance :	82.4 pF / m
Velocity of signal propagation:	81 %
Signal delay:	4.12 ns / m
Min. screening effectiveness:	> 40 dB (up to 2 GHz)
Max. operating voltage:	0.35 kV _{rms} (at sea level)
Test voltage:	1 kV _{rms} (50 Hz/ 1min)
Insulation resistance:	> 10 M Ω m

General Data

Temperature range:	-40 °C...+ 85 °C
Weight:	2.8 kg / 100 m
Min. bending radius :	static 25 mm
	repeated (for max. 50 bendings) 45 mm
	dynamic 85 mm

Suitable Connectors

Cable group S7
 (for details refer to the "SUHNER coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner)

Notes

Order as **S 02132** under article number **22511624**

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While the information contained in this folder has been carefully compiled to the best of our present knowledge, it is not intended as representation or warranty of any kind on our part regarding the fitness of the products concerned for any particular use or purpose and neither shall any statement contained herein be construed as a recommendation to infringe any industrial property rights or as a license to use any such rights. The fitness of each product for any particular purpose must be checked beforehand with our specialists.



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Matrix Attenuation [formula : (a*f^0.5 +b*f)] and Power CW [formula : (p*/f^0.5)]

Coefficients:

a= 0.4153

b= 0.1463

f_{max}= 2

p_{at 1GHz} = 90

Frequency (GHz)	Nom. attenuation (dB / m) sea level 25° C ambient temperature	Nom. attenuation (dB / ft) sea level 25° C ambient temperature	Max. CW power (watt) sea level 40° C ambient temperature
0.10	0.146	0.0445	284.6
0.20	0.215	0.0655	201.2
0.30	0.271	0.0826	164.3
0.40	0.321	0.0978	142.3
0.50	0.367	0.1119	127.3
0.60	0.409	0.1247	116.2
0.70	0.450	0.1372	107.6
0.80	0.488	0.1487	100.6
0.90	0.526	0.1603	94.9
1.00	0.562	0.1713	90.0
1.10	0.597	0.1820	85.8
1.20	0.630	0.1920	82.2
1.30	0.664	0.2024	78.9
1.40	0.696	0.2121	76.1
1.50	0.728	0.2219	73.5
1.60	0.759	0.2313	71.2
1.70	0.790	0.2408	69.0
1.80	0.821	0.2502	67.1
1.90	0.850	0.2591	65.3
2.00	0.880	0.2682	63.6

Test (following tests have been passed successfully)

Aging: MIL-C-17 - §4.8.16

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