



SUHNER® COAXIAL CABLE DATA SHEET

TYPE S 02112 D

Double screened coaxial cable - free of halogen

Cable Design



	Material	Detail	Diameter
Centre conductor:	<i>CuSn</i>	<i>Strand-19 (0.19 mm)</i>	<i>0.94 mm</i>
Dielectric:	<i>SPE</i>		<i>2.36 mm</i>
1. Outer conductor:	<i>Cu Braid</i>	<i>96% coverage</i>	<i>2.9 mm</i>
2. Outer conductor:	<i>Cu Braid</i>	<i>84% coverage</i>	<i>3.5 mm</i>
Jacket:	<i>PUR</i>	<i>RAL 9005 - bk</i>	<i>4.5 mm +/-0.1</i>
Print:	<i>SUHNER SWITZERLAND S 02112 D 50 Ohm</i>		

Electrical Data

Impedance:	<i>50</i>	Ω +/-2
Max. operating frequency:	<i>6</i>	GHz
Capacitance :	<i>81.6</i>	pF / m
Velocity of signal propagation:	<i>82</i>	%
Signal delay:	<i>4.08</i>	ns / m
Min. screening effectiveness:	<i>> 81</i>	dB (up to 6 GHz)
Max. operating voltage:	<i>0.35</i>	kV _{rms} (at sea level)
Test voltage:	<i>1</i>	kV _{rms} (50 Hz/ 1min)
Insulation resistance:	<i>> 10</i>	M Ω m

General Data

Temperature range:	<i>-40 °C...+ 85 °C</i>
Weight:	<i>3.7</i> kg / 100 m
<i>Min. bending radius :</i>	<i>static</i> <i>25</i> mm
	<i>repeated</i> (for max. 50 bendings) <i>50</i> mm
	<i>dynamic</i> <i>100</i> mm

Suitable Connectors

Cable group **S8**
(for details refer to the "SUHNER coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner)

Notes

Order as **S 02112 D** under article number **22511910**

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Issued: 26.6.2002 10:42

Document: TEMP_PDB_2251191
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Matrix Attenuation [formula : (a*f^0.5 +b*f)] and Power CW [formula : (p*/f^0.5)]

Coefficients:

a= 0.5272

b= 0.1353

f_{max}= 6

p_{at 1GHz} = 80

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
0.30	0.329	0.1003	146.1
0.60	0.490	0.1493	103.3
0.90	0.622	0.1896	84.3
1.20	0.740	0.2255	73.0
1.50	0.849	0.2588	65.3
1.80	0.951	0.2899	59.6
2.10	1.048	0.3194	55.2
2.40	1.141	0.3478	51.6
2.70	1.232	0.3755	48.7
3.00	1.319	0.4020	46.2
3.30	1.404	0.4279	44.0
3.60	1.487	0.4532	42.2
3.90	1.569	0.4782	40.5
4.20	1.649	0.5026	39.0
4.50	1.727	0.5264	37.7
4.80	1.804	0.5498	36.5
5.10	1.881	0.5733	35.4
5.40	1.956	0.5962	34.4
5.70	2.030	0.6187	33.5
6.00	2.103	0.6410	32.7

Halogen content IEC 754

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