



SUHNER® COAXIAL CABLE DATA SHEET

TYPE S 01112 D

Double screened coaxial cable - free of halogen

Cable Design



	Material	Detail	Diameter
Centre conductor:	Cu	Strand-07 (0.18 mm)	0.54 mm
Dielectric:	SPE		1.32 mm
1. Outer conductor:	CuSn Braid	92% coverage	1.7 mm
2. Outer conductor:	CuSn Braid	95% coverage	2.2 mm
Jacket:	TPE (no print)	RAL 9005 - bk	2.55 mm +/-0.15

Electrical Data

Impedance:	50	Ω +/-2
Max. operating frequency:	6	GHz
Capacitance :	83	pF / m
Velocity of signal propagation:	80	%
Signal delay:	4.15	ns / m
Min. screening effectiveness:	> 39	dB (up to 6 GHz)
Max. operating voltage:	0.2	kV _{rms} (at sea level)
Test voltage:	0.4	kV _{rms} (50 Hz/ 1min)
Insulation resistance:	> 10	M Ω m

General Data

Temperature range:	-40 °C...+ 80 °C	
Weight:	1.3 kg / 100 m	
Min. bending radius :	static	12 mm
	repeated (for max. 50 bendings)	25 mm
	dynamic	50 mm

Suitable Connectors

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

Notes

Order as **S 01112 D** under article number **22512129**

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

Coefficients:

a= 0.7625

b= 0.0428

f_{max}= 6

p_{at 1GHz} = 42

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	0.430	0.1311	76.7
0.60	0.616	0.1877	54.2
0.90	0.762	0.2322	44.3
1.20	0.887	0.2703	38.3
1.50	0.998	0.3042	34.3
1.80	1.100	0.3353	31.3
2.10	1.195	0.3642	29.0
2.40	1.284	0.3913	27.1
2.70	1.368	0.4169	25.6
3.00	1.449	0.4416	24.2
3.30	1.526	0.4651	23.1
3.60	1.601	0.4880	22.1
3.90	1.673	0.5099	21.3
4.20	1.742	0.5309	20.5
4.50	1.810	0.5517	19.8
4.80	1.876	0.5718	19.2
5.10	1.940	0.5913	18.6
5.40	2.003	0.6105	18.1
5.70	2.064	0.6291	17.6
6.00	2.125	0.6477	17.1

Halogen content IEC 754

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