



SUHNER® COAXIAL CABLE DATA SHEET

TYPE S 02132 D

Double screened coaxial cable

Cable Design



	Material	Detail	Diameter
Centre conductor:	CuAg	Wire (0.88 mm)	0.88 mm
Dielectric:	SPE		2.36 mm
1. Outer conductor:	CuAg Braid	92% coverage	2.95 mm
2. Outer conductor:	CuAg Braid	96% coverage	3.6 mm
Jacket:	PVC2	RAL 9005 - bk	4.8 mm +/-0.1
Print:	SUHNER SWITZERLAND S 02132 D 50 Ohm		

Electrical Data

Impedance:	50 Ω +/-2
Max. operating frequency:	6 GHz
Capacitance :	80.3 pF / m
Velocity of signal propagation:	83 %
Signal delay:	4.01 ns / m
Min. screening effectiveness:	> 75 dB (up to 6 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:	4.5 kg / 100 m
Min. bending radius :	static 25 mm
	repeated (for max. 50 bendings) 50 mm
	dynamic 100 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 02132 D** under article number **22511625**

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

Coefficients:

a= 0.4273

b= 0.0718

f_{max}= 6

p_{at 1GHz} = 98

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	0.256	0.0780	178.9
0.60	0.374	0.1140	126.5
0.90	0.470	0.1432	103.3
1.20	0.554	0.1689	89.5
1.50	0.631	0.1923	80.0
1.80	0.703	0.2143	73.0
2.10	0.770	0.2347	67.6
2.40	0.834	0.2542	63.3
2.70	0.896	0.2731	59.6
3.00	0.956	0.2914	56.6
3.30	1.013	0.3087	53.9
3.60	1.069	0.3258	51.7
3.90	1.124	0.3426	49.6
4.20	1.177	0.3587	47.8
4.50	1.230	0.3749	46.2
4.80	1.281	0.3904	44.7
5.10	1.331	0.4057	43.4
5.40	1.381	0.4209	42.2
5.70	1.429	0.4355	41.0
6.00	1.477	0.4502	40.0

Test (following tests have been passed successfully)

Aging: MIL-C-17 - §4.8.16

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