



SUHNER® COAXIAL CABLE DATA SHEET

TYPE S 02133 B-03

High screened coaxial cable

Cable Design



	Material	Detail	Diameter
Centre conductor:	CuSn	Wire (0.45 mm)	0.45 mm
Dielectric:	SPE		1.95 mm
1. Outer conductor:	Al-PES wrapped Foil	100% coverage	2.1 mm
2. Outer conductor:	CuSn Braid	84% coverage	2.6 mm
Jacket:	PVC (no print)	RAL 7032 - gr	3.4 mm +/-0.1

Electrical Data

Impedance:	75 Ω +/-3
Max. operating frequency:	2 GHz
Capacitance :	54.4 pF / m
Velocity of signal propagation:	82 %
Signal delay:	4.08 ns / m
Min. screening effectiveness:	> 90 dB (up to 2 GHz)
Max. operating voltage:	0.4 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:	1.7 kg / 100 m
Min. bending radius :	static 35 mm
	repeated (for max. 50 bendings) 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 02133 B-03** under article number **22511888**

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

Coefficients:

a= 0.4595

b= 0.0361

f_{max}= 2

p_{at 1GHz} = 77

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	0.149	0.0454	243.5
0.20	0.213	0.0649	172.2
0.30	0.263	0.0802	140.6
0.40	0.305	0.0930	121.7
0.50	0.343	0.1045	108.9
0.60	0.378	0.1152	99.4
0.70	0.410	0.1250	92.0
0.80	0.440	0.1341	86.1
0.90	0.468	0.1426	81.2
1.00	0.496	0.1512	77.0
1.10	0.522	0.1591	73.4
1.20	0.547	0.1667	70.3
1.30	0.571	0.1740	67.5
1.40	0.594	0.1810	65.1
1.50	0.617	0.1881	62.9
1.60	0.639	0.1948	60.9
1.70	0.660	0.2012	59.1
1.80	0.681	0.2076	57.4
1.90	0.702	0.2140	55.9
2.00	0.722	0.2201	54.4

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