



SUHNER® COAXIAL CABLE DATA SHEET

TYPE S 02112-03

High flexible coaxial cable - free of halogen

Cable Design



	Material	Detail	Diameter
Centre conductor:	Cu	Strand-19 (0.16 mm)	0.81 mm
Dielectric:	SPE		2.1 mm
1. Outer conductor:	CuSn Braid	92% coverage	2.62 mm
Jacket:	HYTREL	RAL 9005 - bk	3.15 mm +/-0.1
Print:	SUHNER SWITZERLAND S 02112-03 B 50 Ohm		

Electrical Data

Impedance:	50	Ω +/-2
Max. operating frequency:	3	GHz
Capacitance :	82	pF / m
Velocity of signal propagation:	83	%
Signal delay:	4.01	ns / m
Min. screening effectiveness:	> 41	dB (up to 3 GHz)
Max. operating voltage:	0.25	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:	2.1 kg / 100 m
Min. bending radius :	static 10 mm
	repeated (for max. 50 bendings) 40 mm
	dynamic 40 mm

Suitable Connectors

Cable group S9
 (for details refer to the "SUHNER coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner)

Notes

Order as **S 02112-03** under article number **23008453**

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

Coefficients:

a= 0.5236

b= 0.0409

f_{max}= 3

p_{at 1GHz} = 82

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
0.15	0.209	0.0637	211.7
0.30	0.299	0.0911	149.7
0.45	0.370	0.1128	122.2
0.60	0.430	0.1311	105.9
0.75	0.484	0.1475	94.7
0.90	0.534	0.1628	86.4
1.05	0.579	0.1765	80.0
1.20	0.623	0.1899	74.9
1.35	0.664	0.2024	70.6
1.50	0.703	0.2143	67.0
1.65	0.740	0.2255	63.8
1.80	0.776	0.2365	61.1
1.95	0.811	0.2472	58.7
2.10	0.845	0.2575	56.6
2.25	0.877	0.2673	54.7
2.40	0.909	0.2770	52.9
2.55	0.940	0.2865	51.4
2.70	0.971	0.2959	49.9
2.85	1.001	0.3051	48.6
3.00	1.030	0.3139	47.3

Test (following tests have been passed successfully)

Halogen content IEC 754

Stress: VW TL 821 33

Aging: VW TL 821 33

Abrasion: MIL-T-81490 - §4.7.19 - prod. II - modified

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