



SUHNER® COAXIAL CABLE DATA SHEET

TYPE S 02232

Single screened coaxial cable

Cable Design



	Material	Detail	Diameter
Centre conductor:	Cu	Wire (0.58 mm)	0.58 mm
Dielectric:	SPE		1.5 mm
1. Outer conductor:	Cu Braid	96% coverage	2 mm
Jacket:	PVC2	RAL 9005 - bk	2.8 mm +/-0.1
Print:	SUHNER SWITZERLAND S 02232 50 Ohm		

Electrical Data

Impedance:	50 Ω +/-2
Max. operating frequency:	1 GHz
Capacitance :	81.6 pF / m
Velocity of signal propagation:	82 %
Signal delay:	4.08 ns / m
Min. screening effectiveness:	> 40 dB (up to 1 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...+ 85 °C
Weight:	1.29 kg / 100 m
Min. bending radius :	static 15 mm
	repeated (for max. 50 bendings) 30 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 02232** under article number **22610022**

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

Coefficients:

a= 0.6821

b= 0.0454

f_{max}= 1

p_{at 1GHz} = 85

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
0.05	0.155	0.0472	380.1
0.10	0.220	0.0671	268.8
0.15	0.271	0.0826	219.5
0.20	0.314	0.0957	190.1
0.25	0.352	0.1073	170.0
0.30	0.387	0.1180	155.2
0.35	0.419	0.1277	143.7
0.40	0.450	0.1372	134.4
0.45	0.478	0.1457	126.7
0.50	0.505	0.1539	120.2
0.55	0.531	0.1618	114.6
0.60	0.556	0.1695	109.7
0.65	0.579	0.1765	105.4
0.70	0.602	0.1835	101.6
0.75	0.625	0.1905	98.1
0.80	0.646	0.1969	95.0
0.85	0.667	0.2033	92.2
0.90	0.688	0.2097	89.6
0.95	0.708	0.2158	87.2
1.00	0.728	0.2219	85.0

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