



SUHNER® COAXIAL CABLE DATA SHEET

TYPE S 03232

Single screened coaxial cable

Cable Design



	Material	Detail	Diameter
Centre conductor:	Cu	Wire (1.14 mm)	1.14 mm
Dielectric:	SPE		2.95 mm
1. Outer conductor:	Cu Braid	95% coverage	3.6 mm
Jacket:	PVC	RAL 9005 - bk	5 mm +/-0.15
Print:	SUHNER SWITZERLAND S 03232 50 Ohm		

Electrical Data

Impedance:	50	Ω +/-4
Max. operating frequency:	1	GHz
Capacitance :	82	pF / m
Velocity of signal propagation:	81	%
Signal delay:	4.1	ns / m
Min. screening effectiveness:	> 40	dB (up to 1 GHz)
Max. operating voltage:	0.45	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:	3.8 kg / 100 m
Min. bending radius :	static 25 mm
	repeated (for max. 50 bendings) 50 mm

Suitable Connectors

Cable group *U8*
 (for details refer to the "SUHNER coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner)

Notes

Order as **S 03232** under article number **22511682**

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Page 1



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

Coefficients:

a= 0.3579

b= 0.0464

f_{max}= 1

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
0.05	0.082	0.0250	438.3
0.10	0.118	0.0360	309.9
0.15	0.146	0.0445	253.0
0.20	0.169	0.0515	219.1
0.25	0.191	0.0582	196.0
0.30	0.210	0.0640	178.9
0.35	0.228	0.0695	165.7
0.40	0.245	0.0747	155.0
0.45	0.261	0.0795	146.1
0.50	0.276	0.0841	138.6
0.55	0.291	0.0887	132.1
0.60	0.305	0.0930	126.5
0.65	0.319	0.0972	121.6
0.70	0.332	0.1012	117.1
0.75	0.345	0.1052	113.2
0.80	0.357	0.1088	109.6
0.85	0.369	0.1125	106.3
0.90	0.381	0.1161	103.3
0.95	0.393	0.1198	100.5
1.00	0.404	0.1231	98.0

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Page 2