



SUHNER® COAXIAL CABLE DATA SHEET

TYPE RG 223 /U

Double screened coaxial cable

Cable Design



	Material	Detail	Diameter
Centre conductor:	CuAg	Wire (0.88 mm)	0.88 mm
Dielectric:	PE		2.95 mm
1. Outer conductor:	CuAg Braid	96% coverage	3.6 mm
2. Outer conductor:	CuAg Braid	94% coverage	4.2 mm
Jacket:	PVC2	RAL 9005 - bk	5.4 mm +/-0.15
Print:	SUHNER SWITZERLAND RG 223 /U 50 Ohm		

Electrical Data

Impedance:	50 Ω +/-2
Max. operating frequency:	6 GHz
Capacitance :	100.7 pF / m
Velocity of signal propagation:	66 %
Signal delay:	5.03 ns / m
Min. screening effectiveness:	> 85 dB (up to 6 GHz)
Max. operating voltage:	2.5 kV _{rms} (at sea level)
Test voltage:	5 kV _{rms} (50 Hz/ 1min)
Insulation resistance:	> 10 MΩm

General Data

Temperature range:	-40 °C...+ 85 °C
Weight:	5.5 kg / 100 m
Min. bending radius :	static 30 mm
	repeated (for max. 50 bendings) 55 mm

Suitable Connectors

Cable group U9 / U10
(for details refer to the "SUHNER coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner)

Notes

Order as **RG 223 /U** under article number **22510072**

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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= 0.4056

b= 0.0789

f_{max}= 6

p_{at 1GHz} = 120

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	0.246	0.0750	219.1
0.60	0.362	0.1103	154.9
0.90	0.456	0.1390	126.5
1.20	0.539	0.1643	109.5
1.50	0.615	0.1874	98.0
1.80	0.686	0.2091	89.4
2.10	0.753	0.2295	82.8
2.40	0.818	0.2493	77.5
2.70	0.879	0.2679	73.0
3.00	0.939	0.2862	69.3
3.30	0.997	0.3039	66.1
3.60	1.054	0.3212	63.2
3.90	1.109	0.3380	60.8
4.20	1.163	0.3545	58.6
4.50	1.215	0.3703	56.6
4.80	1.267	0.3862	54.8
5.10	1.318	0.4017	53.1
5.40	1.369	0.4173	51.6
5.70	1.418	0.4322	50.3
6.00	1.467	0.4471	49.0

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Page 2