



SUHNER® COAXIAL CABLE DATA SHEET

TYPE RG 223 /U-01

Double screened coaxial cable - precision type

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-01 50 Ohm		

Electrical Data

Impedance:	50 Ω +/-1
Max. operating frequency:	5 GHz
Capacitance :	100.7 pF / m
Velocity of signal propagation:	66 %
Signal delay:	5.03 ns / m
Min. screening effectiveness:	> 85 dB (up to 0.3 GHz)
Max. operating voltage:	2.5 kV _{rms} (at sea level)
Test voltage:	5 kV _{rms} (50 Hz/ 1min)
Insulation resistance:	> 10 M Ω m

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-01** under article number **22510073**

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

Coefficients:

$a = 0.4056$

$b = 0.0789$

$f_{\max} = 5$

$p_{\text{at } 1\text{GHz}} = 120$

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
0.25	0.223	0.0680	240.0
0.50	0.326	0.0994	169.7
0.75	0.410	0.1250	138.6
1.00	0.485	0.1478	120.0
1.25	0.552	0.1682	107.3
1.50	0.615	0.1874	98.0
1.75	0.675	0.2057	90.7
2.00	0.731	0.2228	84.9
2.25	0.786	0.2396	80.0
2.50	0.839	0.2557	75.9
2.75	0.890	0.2713	72.4
3.00	0.939	0.2862	69.3
3.25	0.988	0.3011	66.6
3.50	1.035	0.3155	64.1
3.75	1.081	0.3295	62.0
4.00	1.127	0.3435	60.0
4.25	1.171	0.3569	58.2
4.50	1.215	0.3703	56.6
4.75	1.259	0.3837	55.1
5.00	1.301	0.3965	53.7

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