



SUHNER® COAXIAL CABLE DATA SHEET

TYPE RG 223 /U-60

Double screened coaxial cable (UL AWM)

Cable Design



	Material	Detail	Diameter
Centre conductor:	CuAg	Wire (0.88 mm)	0.88 mm
Dielectric:	PE		2.95 mm
1. Outer conductor:	CuSn Braid	96% coverage	3.6 mm
2. Outer conductor:	CuSn Braid	94% coverage	4.2 mm
Jacket:	UL-PVC	RAL 7032 - gr	5.4 mm +/-0.1
Print:	SUHNER SWITZERLAND RG 223 /U-60 (UR) AWM STYLE 135		

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 M Ω m

General Data

Temperature range:	-20 °C...+ 85 °C
Weight:	5.7 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-60** under article number **22511565**

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

Coefficients:

$a = 0.4035$

$b = 0.0841$

$f_{\max} = 6$

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

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
0.30	0.246	0.0750	219.1
0.60	0.363	0.1106	154.9
0.90	0.458	0.1396	126.5
1.20	0.543	0.1655	109.5
1.50	0.620	0.1890	98.0
1.80	0.693	0.2112	89.4
2.10	0.761	0.2319	82.8
2.40	0.827	0.2521	77.5
2.70	0.890	0.2713	73.0
3.00	0.951	0.2899	69.3
3.30	1.011	0.3081	66.1
3.60	1.068	0.3255	63.2
3.90	1.125	0.3429	60.8
4.20	1.180	0.3596	58.6
4.50	1.234	0.3761	56.6
4.80	1.288	0.3926	54.8
5.10	1.340	0.4084	53.1
5.40	1.392	0.4243	51.6
5.70	1.443	0.4398	50.3
6.00	1.493	0.4550	49.0

Flame propagation: *UL (horizontal flame test)*

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