



SUHNER® COAXIAL CABLE DATA SHEET

TYPE RG 213 /U

Single screened coaxial cable

Cable Design



	Material	Detail	Diameter
Centre conductor:	Cu	Strand-07 (0.75 mm)	2.25 mm
Dielectric:	PE		7.28 mm
1. Outer conductor:	Cu Braid	96% coverage	8.1 mm
Jacket:	PVC2	RAL 9005 - bk	10.3 mm +/-0.1
Print:	SUHNER SWITZERLAND RG 213 /U 50 Ohm		

Electrical Data

Impedance:	50 Ω +/-2
Max. operating frequency:	1 GHz
Capacitance :	100.7 pF / m
Velocity of signal propagation:	66 %
Signal delay:	5.03 ns / m
Min. screening effectiveness:	> 40 dB (up to 0.3 GHz)
Max. operating voltage:	5 kV _{rms} (at sea level)
Test voltage:	10 kV _{rms} (50 Hz/ 1min)
Insulation resistance:	> 10 M Ω m

General Data

Temperature range:	-40 °C...+ 85 °C
Weight:	15.3 kg / 100 m
Min. bending radius :	static 55 mm
	repeated (for max. 50 bendings) 100 mm
	dynamic 200 mm

Suitable Connectors

Cable group	U29 / U28
(for details refer to the "SUHNER coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner)	

Notes

Order as **RG 213 /U** under article number **22510052**

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

Coefficients:

$a = 0.18$

$b = 0.06$

$f_{\max} = 1$

$p_{\text{at } 1\text{GHz}} = 416$

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	0.043	0.0131	1'860.4
0.10	0.063	0.0192	1'315.5
0.15	0.079	0.0241	1'074.1
0.20	0.092	0.0280	930.2
0.25	0.105	0.0320	832.0
0.30	0.117	0.0357	759.5
0.35	0.127	0.0387	703.2
0.40	0.138	0.0421	657.8
0.45	0.148	0.0451	620.1
0.50	0.157	0.0479	588.3
0.55	0.166	0.0506	560.9
0.60	0.175	0.0533	537.1
0.65	0.184	0.0561	516.0
0.70	0.193	0.0588	497.2
0.75	0.201	0.0613	480.4
0.80	0.209	0.0637	465.1
0.85	0.217	0.0661	451.2
0.90	0.225	0.0686	438.5
0.95	0.232	0.0707	426.8
1.00	0.240	0.0731	416.0

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