



SUHNER® COAXIAL CABLE DATA SHEET

TYPE RG_212U

Double screened coaxial cable

Cable Design



	Material	Detail	Diameter
Centre conductor:	Copper / Silver Plated	Wire	1.4 mm
Dielectric:	PE (Polyethylene)		4.7 mm
1. Outer conductor:	Copper / Silver Plated Braid	94%	5.45 mm
2. Outer conductor:	Copper / Silver Plated	Braid	94% 6.2 mm
Jacket:	PVC (Polyvinylchloride)	RAL 9005 - bk	8.45 mm +/- 0.1
Print:	SUHNER SWITZERLAND RG 212 /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:	> 78	dB (up to 6 GHz)
Max. operating voltage:	3.5	kV _{rms} (at sea level)
Test voltage:	7	kV _{rms} (50 Hz/ 1min)
Insulation resistance:	> 1	$\times 10^6$ M Ω /m

General Data

Temperature range:	-40 °C... +85 °C
Weight:	11.4 kg / 100 m
Min. bending radius :	static 45 mm
	repeated (for max. 50 bendings) 90 mm

Suitable Connectors

Cable group *U20 / n/a*
 (for details refer to the "SUHNER coaxial connector catalogue" or contact your nearest HUBER+SUHNER partner)

Notes

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While the information contained in this folder has been carefully compiled to the best of our present knowledge, it is not intended as representation or warranty of any kind on our part regarding the fitness of the products concerned for any particular use or purpose and neither shall any statement contained herein be construed as a recommendation to infringe any industrial property rights or as a license to use any such rights. The fitness of each product for any particular purpose must be checked beforehand with our specialists.



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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= 0.2893

b= 0.0537

f_{max}=. 6

p_{at 1GHz} = 251

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	0.175	0.0533	458.3
0.60	0.256	0.0780	324.0
0.90	0.323	0.0984	264.6
1.20	0.381	0.1161	229.1
1.50	0.435	0.1326	204.9
1.80	0.485	0.1478	187.1
2.10	0.532	0.1621	173.2
2.40	0.577	0.1759	162.0
2.70	0.620	0.1890	152.8
3.00	0.662	0.2018	144.9
3.30	0.703	0.2143	138.2
3.60	0.742	0.2262	132.3
3.90	0.781	0.2380	127.1
4.20	0.818	0.2493	122.5
4.50	0.855	0.2606	118.3
4.80	0.892	0.2719	114.6
5.10	0.927	0.2825	111.1
5.40	0.962	0.2932	108.0
5.70	0.997	0.3039	105.1
6.00	1.031	0.3142	102.5

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Page 2