



SUHNER® MICROWAVE CABLE DATA SHEET

TYPE RG 214 /U-04

Double screened coaxial cable - precision type

Cable Design



	Material	Detail	Diameter
Centre conductor:	CuAg	Strand-07	2.25 mm
Dielectric:	PE		7.28 mm
1. Outer conductor:	CuAg Braid	96% coverage	8 mm
2. Outer conductor:	CuAg Braid	93% coverage	8.7 mm
Jacket:	PVC2	RAL 7032 - gr	10.8 mm
Print:	SUHNER SWITZERLAND RG 214 /U-04 50 Ohm		
Armour E:	n/a		

Electrical Data

Impedance:	50	Ω
Max. operating frequency:	6	GHz
Capacitance:	101.6	pF / m
Velocity of signal propagation:	66	%
Signal delay:	5.08	ns / m
Min. screening effectiveness:	> 71	dB (up to 0.3 GHz)
Max. operating voltage:	5	kV _{rms} (at sea level)

General Data

Temperature range:	-40 °C...+ 85 °C
Weight:	18.5 kg / 100 m
Min. bending radius :	static 55 mm
	repeated (for max. 50 bendings) 110 mm
	dynamic 220 mm

Suitable Connectors

Cable group	U32 / U33
(for details refer to the "SUHNER Microwave Cables and Assemblies General Catalogue" or contact your nearest HUBER+SUHNER partner)	

Notes

Order as **RG 214 /U-04** under article number **22610050**

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Matrix **Attenuation** [formula : $(a \cdot f^{0.5} + b \cdot f)$] and **Power CW** [formula : $(p^2 / f^{0.5})$]

Coefficients:

a= 0.1884

b= 0.066

f_{max}= 6

p_{at 1GHz} = 324

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
0.5	0.17	0.052	458
1	0.25	0.076	324
2	0.40	0.122	229
3	0.52	0.158	187
4	0.64	0.195	162
5	0.75	0.229	145
6	0.86	0.262	132
7	0.96	0.293	122
8	1.06	0.323	115
9	1.16	0.354	108
10	1.26	0.384	102
11	1.35	0.411	98
12	1.44	0.439	94
13	1.54	0.469	90
14	1.63	0.497	87
15	1.72	0.524	84

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