



SUHNER® COAXIAL CABLE DATA SHEET

TYPE RG 214 /U-01

Double screened coaxial cable - precision type

Cable Design



	Material	Detail	Diameter
Centre conductor:	CuAg	Strand-07 (0.75 mm)	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 9005 - bk	10.8 mm +/-0.15
Print:	SUHNER SWITZERLAND RG 214 /U-01 50 Ohm		

Armour H: n/a

Electrical Data

Impedance:	50 Ω +/-1
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 6 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:	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 coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner)

Notes

Order as **RG 214 /U-01** under article number **22510058**

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

Coefficients:

$a = 0.1884$

$b = 0.0666$

$f_{\max} = 6$

$p_{\text{at } 1\text{GHz}} = 325$

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	0.123	0.0375	593.4
0.60	0.186	0.0567	419.6
0.90	0.239	0.0728	342.6
1.20	0.286	0.0872	296.7
1.50	0.331	0.1009	265.4
1.80	0.373	0.1137	242.2
2.10	0.413	0.1259	224.3
2.40	0.452	0.1378	209.8
2.70	0.489	0.1490	197.8
3.00	0.526	0.1603	187.6
3.30	0.562	0.1713	178.9
3.60	0.597	0.1820	171.3
3.90	0.632	0.1926	164.6
4.20	0.666	0.2030	158.6
4.50	0.699	0.2130	153.2
4.80	0.732	0.2231	148.3
5.10	0.765	0.2332	143.9
5.40	0.797	0.2429	139.9
5.70	0.829	0.2527	136.1
6.00	0.861	0.2624	132.7

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