



SUHNER® COAXIAL CABLE DATA SHEET

TYPE RG 214 /U-60

Double screened coaxial cable

Cable Design



	Material	Detail	Diameter
Centre conductor:	CuAg	Strand-07 (0.75 mm)	2.25 mm
Dielectric:	PE		7.28 mm
1. Outer conductor:	CuSn Braid	93% coverage	8 mm
2. Outer conductor:	CuSn Braid	95% coverage	8.7 mm
Jacket:	UL-PVC	RAL 9005 - bk	10.8 mm +/-0.15
Print:	SUHNER SWITZERLAND RG 214 /U-60 (UR) AWM Style 147		

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:	> 71 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:	-20 °C...+ 85 °C
Weight:	18.9 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-60** under article number **22511566**

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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:

$a = 0.1884$

$b = 0.066$

$f_{\max} = 6$

$p_{\text{at } 1\text{GHz}} = 324$

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
0.30	0.123	0.0375	591.5
0.60	0.186	0.0567	418.3
0.90	0.238	0.0725	341.5
1.20	0.286	0.0872	295.8
1.50	0.330	0.1006	264.5
1.80	0.372	0.1134	241.5
2.10	0.412	0.1256	223.6
2.40	0.450	0.1372	209.1
2.70	0.488	0.1487	197.2
3.00	0.524	0.1597	187.1
3.30	0.560	0.1707	178.4
3.60	0.595	0.1813	170.8
3.90	0.629	0.1917	164.1
4.20	0.663	0.2021	158.1
4.50	0.697	0.2124	152.7
4.80	0.730	0.2225	147.9
5.10	0.762	0.2322	143.5
5.40	0.794	0.2420	139.4
5.70	0.826	0.2518	135.7
6.00	0.857	0.2612	132.3

Flame propagation: *UL (vertical flame test similar VW-1)*

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