



SUHNER® COAXIAL CABLE DATA SHEET

TYPE RG 217 /U

Double screened coaxial cable

Cable Design



	Material	Detail	Diameter
Centre conductor:	Cu	Wire (2.68 mm)	2.68 mm
Dielectric:	PE		9.4 mm
1. Outer conductor:	Cu Braid	96% coverage	10.3 mm
2. Outer conductor:	Cu Braid	94% coverage	11.2 mm
Jacket:	PVC2	RAL 9005 - bk	13.85 mm +/-0.25
Print:	SUHNER SWITZERLAND RG 217 /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:	> 80 dB (up to 6 GHz)
Max. operating voltage:	6 kV _{rms} (at sea level)
Test voltage:	12 kV _{rms} (50 Hz/ 1min)
Insulation resistance:	> 10 M Ω m

General Data

Temperature range:	-40 °C...+ 85 °C
Weight:	30.1 kg / 100 m
Min. bending radius :	static 80 mm
	repeated (for max. 50 bendings) 140 mm

Suitable Connectors

Cable group *n/a / U38*
(for details refer to the "SUHNER coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner)

Notes

Order as **RG 217 /U** under article number **22510064**

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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:

$a = 0.1178$

$b = 0.0457$

$f_{\max} = 6$

$p_{\text{at } 1\text{GHz}} = 600$

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	0.078	0.0238	1'095.4
0.60	0.119	0.0363	774.6
0.90	0.153	0.0466	632.5
1.20	0.184	0.0561	547.7
1.50	0.213	0.0649	489.9
1.80	0.240	0.0731	447.2
2.10	0.267	0.0814	414.0
2.40	0.292	0.0890	387.3
2.70	0.317	0.0966	365.1
3.00	0.341	0.1039	346.4
3.30	0.365	0.1112	330.3
3.60	0.388	0.1183	316.2
3.90	0.411	0.1253	303.8
4.20	0.433	0.1320	292.8
4.50	0.456	0.1390	282.8
4.80	0.477	0.1454	273.9
5.10	0.499	0.1521	265.7
5.40	0.521	0.1588	258.2
5.70	0.542	0.1652	251.3
6.00	0.563	0.1716	244.9

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