



SUHNER® COAXIAL CABLE DATA SHEET

TYPE RG 58 C/U

Single screened coaxial cable

Cable Design



	Material	Detail	Diameter
Centre conductor:	CuSn	Strand-19 (0.19 mm)	0.94 mm
Dielectric:	PE		2.95 mm
1. Outer conductor:	CuSn Braid	96% coverage	3.6 mm
Jacket:	PVC2	RAL 9005 - bk	4.95 mm +/- 0.1
Print:	SUHNER SWITZERLAND RG 58 C/U 50 Ohm		

Electrical Data

Impedance:	50 Ω +/-2
Max. operating frequency:	1 GHz
Capacitance :	100.7 pF / m
Velocity of signal propagation:	66 %
Signal delay:	5.03 ns / m
Min. screening effectiveness:	> 38 dB (up to 1 GHz)
Max. operating voltage:	2.5 kV _{rms} (at sea level)
Test voltage:	5 kV _{rms} (50 Hz/ 1min)
Insulation resistance:	> 10 M Ω m

General Data

Temperature range:	-40 °C...+ 85 °C
Weight:	3.7 kg / 100 m
Min. bending radius :	static 25 mm
	repeated (for max. 50 bendings) 50 mm
	dynamic 100 mm

Suitable Connectors

Cable group *U7 / U7*
 (for details refer to the "SUHNER coaxial connector catalogue" or contact your nearest HUBER+SUHNER partner)

Notes

Order as **RG 58 C/U** under article number **22510015**

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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:

$a = 0.3862$

$b = 0.1935$

$f_{\max} = 1$

$p_{\text{at } 1\text{GHz}} = 105$

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
0.05	0.096	0.0293	469.6
0.10	0.141	0.0430	332.0
0.15	0.179	0.0546	271.1
0.20	0.211	0.0643	234.8
0.25	0.241	0.0735	210.0
0.30	0.270	0.0823	191.7
0.35	0.296	0.0902	177.5
0.40	0.322	0.0981	166.0
0.45	0.346	0.1055	156.5
0.50	0.370	0.1128	148.5
0.55	0.393	0.1198	141.6
0.60	0.415	0.1265	135.6
0.65	0.437	0.1332	130.2
0.70	0.459	0.1399	125.5
0.75	0.480	0.1463	121.2
0.80	0.500	0.1524	117.4
0.85	0.521	0.1588	113.9
0.90	0.541	0.1649	110.7
0.95	0.560	0.1707	107.7
1.00	0.580	0.1768	105.0

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