



SUHNER® COAXIAL CABLE DATA SHEET

TYPE RG 11 A/U

Single screened coaxial cable

Cable Design



	Material	Detail	Diameter
Centre conductor:	CuSn	Strand-07 (0.4 mm)	1.2 mm
Dielectric:	PE		7.25 mm
1. Outer conductor:	Cu Braid	96% coverage	8.1 mm
2. Outer conductor:	n/a n/a		
3. Outer conductor:	n/a n/a		
Jacket:	PVC2	RAL 9005 - bk	10.3 mm +/-0.1
Print:	SUHNER SWITZERLAND RG 11 A/U 75 Ohm		
Screen:	n/a n/a		
Armour E:	n/a		
Armour F:	n/a		
Armour G:	n/a		
Armour H:	n/a		
Jacket:	n/a		mm

Electrical Data

Impedance:	75	Ω +/-3	
Max. operating frequency:	1	GHz	
Capacitance :	67.1	pF / m	
Velocity of signal propagation:	66	%	
Signal delay:	5.03	ns / m	
Min. screening effectiveness:	>	dB (up to	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:	13.3 kg / 100 m
Min. bending radius :	static 55 mm
	repeated (for max. 50 bendings) 100 mm
	dynamic 200 mm

Suitable Connectors

Cable group U34 / U35
(for details refer to the "SUHNER coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner)

Notes

Order as **RG 11 A/U** under article number **22510004**

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

Coefficients:

$a = 0.175$

$b = 0.093$

$f_{\max} = 1$

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

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	0.044	0.0134	0.0
0.10	0.065	0.0198	0.0
0.15	0.082	0.0250	0.0
0.20	0.097	0.0296	0.0
0.25	0.111	0.0338	0.0
0.30	0.124	0.0378	0.0
0.35	0.136	0.0415	0.0
0.40	0.148	0.0451	0.0
0.45	0.159	0.0485	0.0
0.50	0.170	0.0518	0.0
0.55	0.181	0.0552	0.0
0.60	0.191	0.0582	0.0
0.65	0.202	0.0616	0.0
0.70	0.212	0.0646	0.0
0.75	0.221	0.0674	0.0
0.80	0.231	0.0704	0.0
0.85	0.240	0.0731	0.0
0.90	0.250	0.0762	0.0
0.95	0.259	0.0789	0.0
1.00	0.268	0.0817	0.0

Test (following tests have been passed successfully)

Flame propagation: n/a n/a n/a

Halogen content: n/a

Smoke: n/a

Radiation: n/a

Stress: n/a

Aging: n/a

Ozone: n/a

Crack: n/a

Toxicity: n/a

Abrasion: n/a

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