



# SUHNER® COAXIAL CABLE DATA SHEET

## TYPE RG 195 A/U

*Single screened coaxial cable*

### Cable Design



	Material	Detail	Diameter
Centre conductor:	StCuAg	Strand-07 ( 0.1 mm)	0.3 mm
Dielectric:	PTFE		2.52 mm
1. Outer conductor:	CuAg Braid	93% coverage	3.1 mm
Jacket:	PFA/PTFE	RAL 9010 - wh	3.7 mm +/-0.15
Print:	SUHNER SWITZERLAND RG 195 A/U 95 Ohm		

### Electrical Data

Impedance:	95	$\Omega$ +/-3	
Max. operating frequency:	1	GHz	
Capacitance :	50.5	pF / m	
Velocity of signal propagation:	70	%	
Signal delay:	4.79	ns / m	
Min. screening effectiveness:	>	dB (up to	GHz)
Max. operating voltage:	1	kV <sub>rms</sub> (at sea level)	
Test voltage:	2	kV <sub>rms</sub> (50 Hz/ 1min)	
Insulation resistance:	> 10	M $\Omega$ m	

### General Data

Temperature range:	-65 °C...+ 165 °C
Weight:	2.8 kg / 100 m
Min. bending radius :	static 45 mm
	repeated (for max. 50 bendings) 90 mm

### Suitable Connectors

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

### Notes

Order as **RG 195 A/U** under article number **22510048**

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While the information contained in this folder has been carefully compiled to the best of our present knowledge, it is not intended as representation or warranty of any kind on our part regarding the fitness of the products concerned for any particular use or purpose and neither shall any statement contained herein be constructed as a recommendation to infringe any industrial property rights or as a license to use any such rights. The fitness of each product for any particular purpose must be checked beforehand with our specialists.



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

Coefficients:

$a = 0.6705$

$b = 0.0331$

$f_{\max} = 1$

$p_{\text{at } 1\text{GHz}} = 35$

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	0.152	0.0463	156.5
0.10	0.215	0.0655	110.7
0.15	0.265	0.0808	90.4
0.20	0.306	0.0933	78.3
0.25	0.344	0.1048	70.0
0.30	0.377	0.1149	63.9
0.35	0.408	0.1244	59.2
0.40	0.437	0.1332	55.3
0.45	0.465	0.1417	52.2
0.50	0.491	0.1496	49.5
0.55	0.515	0.1570	47.2
0.60	0.539	0.1643	45.2
0.65	0.562	0.1713	43.4
0.70	0.584	0.1780	41.8
0.75	0.605	0.1844	40.4
0.80	0.626	0.1908	39.1
0.85	0.646	0.1969	38.0
0.90	0.666	0.2030	36.9
0.95	0.685	0.2088	35.9
1.00	0.704	0.2146	35.0

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