



# SUHNER® COAXIAL CABLE DATA SHEET

## TYPE RG\_179\_B/U

*Single screened coaxial cable*

### Cable Design



	<b>Material</b>	<b>Detail</b>	<b>Diameter</b>
Centre conductor:	Steel: Copper+Silver Plated	Strand-07	0.31 mm
Dielectric:	PTFE (Polytetrafluorethyln.)		1.55 mm
1. Outer conductor:	Copper: Silver Plated Braid	94%	2 mm
Jacket:	FEP (Fluorethylene Prop.)	RAL 8015 - br	2.54 mm +/- 0.1
Print:	HUBER+SUHNER RG 179 B/U 75 Ohm (PA no.)		

### Electrical Data

Impedance:	75	$\Omega$ +/-3
Max. operating frequency:	1	GHz
Capacitance :	64.4	pF / m
Velocity of signal propagation:	69	%
Signal delay:	4.83	ns / m
Min. screening effectiveness:	> 41	dB (up to 1 GHz)
Max. operating voltage:	1	kV <sub>rms</sub> (at sea level)
Test voltage:	2	kV <sub>rms</sub> (50 Hz/ 1min)
Insulation resistance:	> 1	$\times 10^6$ M $\Omega$ /m

### General Data

Temperature range:	-65 °C... +165 °C
Weight:	1.48 kg / 100 m
Min. bending radius :	static 15 mm
	repeated (for max. 50 bendings) 30 mm

### Suitable Connectors

Cable group *U5 / U5*  
 (for details refer to the "SUHNER coaxial connector catalogue" or contact your nearest HUBER+SUHNER partner)

### Notes

#### WAIVER!

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 construed 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\*f^0.5 +b\*f)] and Power CW [formula : (p\*/ f^0.5)]

Coefficients:

a= 0.8177

b= 0.0981

f<sub>max</sub>= 1

p<sub>at 1GHz</sub> = 115

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	0.188	0.0573	514.3
0.10	0.268	0.0817	363.7
0.15	0.331	0.1009	296.9
0.20	0.385	0.1173	257.1
0.25	0.433	0.1320	230.0
0.30	0.477	0.1454	210.0
0.35	0.518	0.1579	194.4
0.40	0.556	0.1695	181.8
0.45	0.593	0.1807	171.4
0.50	0.627	0.1911	162.6
0.55	0.660	0.2012	155.1
0.60	0.692	0.2109	148.5
0.65	0.723	0.2204	142.6
0.70	0.753	0.2295	137.5
0.75	0.782	0.2383	132.8
0.80	0.810	0.2469	128.6
0.85	0.837	0.2551	124.7
0.90	0.864	0.2633	121.2
0.95	0.890	0.2713	118.0
1.00	0.916	0.2792	115.0

**Test** (following tests have been passed successfully)

Flame propagation: IEC 60332-1

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