



SUHNER® COAXIAL CABLE DATA SHEET

TYPE RG 400 /U-02

Double screened coaxial cable

Cable Design



	Material	Detail	Diameter
Centre conductor:	CuAg	Strand-19 (0.2 mm)	1 mm
Dielectric:	PTFE		2.95 mm
1. Outer conductor:	CuAg Braid	97% coverage	3.6 mm
2. Outer conductor:	CuAg Braid	94% coverage	4.2 mm
Jacket:	FEP	RAL 8024 - br	5 mm +/-0.1
Print:	SUHNER SWITZERLAND RG 400 /U-02 50 Ohm		

Electrical Data

Impedance:	50	Ω +/-2
Max. operating frequency:	6	GHz
Capacitance :	95	pF / m
Velocity of signal propagation:	70	%
Signal delay:	4.75	ns / m
Min. screening effectiveness:	> 81	dB (up to 6 GHz)
Max. operating voltage:	1.5	kV _{rms} (at sea level)
Test voltage:	3	kV _{rms} (50 Hz/ 1min)
Insulation resistance:	> 10	M Ω m

General Data

Temperature range:	-65 °C...+ 165 °C
Weight:	6.4 kg / 100 m
Min. bending radius :	static 30 mm
	repeated (for max. 50 bendings) 50 mm
	dynamic 100 mm

Suitable Connectors

Cable group *U11 / U10*
 (for details refer to the "SUHNER coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner)

Notes

Order as **RG 400 /U-02** under article number **22511584**

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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 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= 0.41951

b= 0.07755

f_{max}= 6

p_{at 1GHz} = 324

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	0.253	0.0771	591.5
0.60	0.371	0.1131	418.3
0.90	0.468	0.1426	341.5
1.20	0.553	0.1685	295.8
1.50	0.630	0.1920	264.5
1.80	0.702	0.2140	241.5
2.10	0.771	0.2350	223.6
2.40	0.836	0.2548	209.1
2.70	0.899	0.2740	197.2
3.00	0.959	0.2923	187.1
3.30	1.018	0.3103	178.4
3.60	1.075	0.3276	170.8
3.90	1.131	0.3447	164.1
4.20	1.185	0.3612	158.1
4.50	1.239	0.3776	152.7
4.80	1.291	0.3935	147.9
5.10	1.343	0.4093	143.5
5.40	1.394	0.4249	139.4
5.70	1.444	0.4401	135.7
6.00	1.493	0.4550	132.3

Test (following tests have been passed successfully)

Flame propagation: IEC 332-3

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