



SUHNER® COAXIAL CABLE DATA SHEET

TYPE RG 400 /U

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 8015 - br	4.95 mm +/-0.1
Print:	SUHNER SWITZERLAND RG 400 /U 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:	1.7 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** under article number **22510080**

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 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.



HUBER+SUHNER

HUBER+SUHNER AG
Interconnect Division
CH-9100 Herisau
Phone +41 (0)71 353 41 11
Fax +41 (0)71 353 45 90
<http://www.hubersuhner.com>

Issued: 13.6.2002 09:42

Document: TEMP_PDB_2251008
0.PDF

RF_Co_Ca_PDF

uncontrolled copy

Page 1



SUHNER® COAXIAL CABLE DATA SHEET

TYPE RG 400 /U

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

Coefficients:

$a = 0.4195$

$b = 0.07755$

$f_{\max} = 6$

$p_{\text{at } 1\text{GHz}} = 365$

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	666.4
0.60	0.371	0.1131	471.2
0.90	0.468	0.1426	384.7
1.20	0.553	0.1685	333.2
1.50	0.630	0.1920	298.0
1.80	0.702	0.2140	272.1
2.10	0.771	0.2350	251.9
2.40	0.836	0.2548	235.6
2.70	0.899	0.2740	222.1
3.00	0.959	0.2923	210.7
3.30	1.018	0.3103	200.9
3.60	1.075	0.3276	192.4
3.90	1.131	0.3447	184.8
4.20	1.185	0.3612	178.1
4.50	1.239	0.3776	172.1
4.80	1.291	0.3935	166.6
5.10	1.343	0.4093	161.6
5.40	1.394	0.4249	157.1
5.70	1.444	0.4401	152.9
6.00	1.493	0.4550	149.0

Test (following tests have been passed successfully)

Flame propagation: IEC 332-3

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.



HUBER+SUHNER

HUBER+SUHNER AG
Interconnect Division
CH-9100 Herisau
Phone +41 (0)71 353 41 11
Fax +41 (0)71 353 45 90
<http://www.hubersuhner.com>

Issued: 13.6.2002 09:42

Document: TEMP_PDB_2251008
0.PDF

RF_Co_Ca_PDF

uncontrolled copy

Page 2