



SUHNER® COAXIAL CABLE DATA SHEET

TYPE **RG 225 /U-05**

Double screened coaxial cable

Cable Design



	Material	Detail	Diameter
Centre conductor:	CuAg	Strand-07 (0.82 mm)	2.46 mm
Dielectric:	PFA/PTFE		7.25 mm
1. Outer conductor:	CuAg Braid	97% coverage	8 mm
2. Outer conductor:	CuAg Braid	99% coverage	8.7 mm
Jacket:	PTFE		8.8 mm
Armour E:	Aramid yarn Braid	81% coverage	10.9 mm +/-0.1

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:	> 73	dB (up to 6 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:	-65 °C...+ 125 °C
Weight:	24.2 kg / 100 m
Min. bending radius :	<i>static</i> 60 mm
	<i>repeated</i> (for max. 50 bendings) 110 mm

Suitable Connectors

Cable group *n/a / U33*
(for details refer to the "SUHNER coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner)

Notes

Order as **RG 225 /U-05** under article number **22512111**

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 10:25

Document: TEMP_PDB_2251211
1.PDF

RF_Co_Ca_PDF

uncontrolled copy

Page 1



SUHNER® COAXIAL CABLE DATA SHEET

TYPE RG 225 /U-05

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

Coefficients:

a= 0.2006

b= 0.1289

f_{max}= 6

p_{at 1GHz} = 1050

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	0.149	0.0454	1917.0
0.60	0.233	0.0710	1355.5
0.90	0.306	0.0933	1106.8
1.20	0.374	0.1140	958.5
1.50	0.439	0.1338	857.3
1.80	0.501	0.1527	782.6
2.10	0.561	0.1710	724.6
2.40	0.620	0.1890	677.8
2.70	0.678	0.2066	639.0
3.00	0.734	0.2237	606.2
3.30	0.790	0.2408	578.0
3.60	0.845	0.2575	553.4
3.90	0.899	0.2740	531.7
4.20	0.952	0.2902	512.3
4.50	1.006	0.3066	495.0
4.80	1.058	0.3225	479.3
5.10	1.110	0.3383	464.9
5.40	1.162	0.3542	451.8
5.70	1.214	0.3700	439.8
6.00	1.265	0.3856	428.7

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 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 10:25

Document: TEMP_PDB_2251211
1.PDF

RF_Co_Ca_PDF

uncontrolled copy

Page 2