

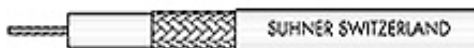


SUHNER® COAXIAL CABLE DATA SHEET

TYPE RG_213U

Single screened coaxial cable

Cable Design



	Material	Detail	Diameter
Centre conductor:	Copper	Strand-07	2.25 mm
Dielectric:	PE (Polyethylene)		7.28 mm
1. Outer conductor:	Copper Braid	96%	8.1 mm
Jacket:	PVC (Polyvinylchloride)	RAL 9005 - bk	10.3 mm +/- 0.1
Print:	SUHNER SWITZERLAND RG 213 /U 50 Ohm		

Electrical Data

Impedance:	50 Ω +/-2
Max. operating frequency:	1 GHz
Capacitance :	100.7 pF / m
Velocity of signal propagation:	66 %
Signal delay:	5.03 ns / m
Min. screening effectiveness:	> 40 dB (up to 0.3 GHz)
Max. operating voltage:	5 kV _{rms} (at sea level)
Test voltage:	10 kV _{rms} (50 Hz/ 1min)
Insulation resistance:	> 1 x 10 ⁶ M Ω /m

General Data

Temperature range:	-40 °C... +85 °C
Weight:	15.3 kg / 100 m
Min. bending radius :	static 55 mm
	repeated (for max. 50 bendings) 100 mm
	dynamic 200 mm

Suitable Connectors

Cable group *U29 / U28*
 (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.



HUBER+SUHNER

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

Issued: 28.7.2003 13:21

Document:
 DOC-0000177758

RF_Co_Ca_PDF

uncontrolled copy

Page 1



SUHNER® COAXIAL CABLE DATA SHEET

TYPE RG_213U

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

Coefficients:

a= 0.184

b= 0.0574

f_{max}= 1

p_{at 1GHz} = 416

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	0.044	0.0134	1860.4
0.10	0.064	0.0195	1315.5
0.15	0.080	0.0244	1074.1
0.20	0.094	0.0286	930.2
0.25	0.106	0.0323	832.0
0.30	0.118	0.0360	759.5
0.35	0.129	0.0393	703.2
0.40	0.139	0.0424	657.8
0.45	0.149	0.0454	620.1
0.50	0.159	0.0485	588.3
0.55	0.168	0.0512	560.9
0.60	0.177	0.0539	537.1
0.65	0.186	0.0567	516.0
0.70	0.194	0.0591	497.2
0.75	0.202	0.0616	480.4
0.80	0.210	0.0640	465.1
0.85	0.218	0.0664	451.2
0.90	0.226	0.0689	438.5
0.95	0.234	0.0713	426.8
1.00	0.241	0.0735	416.0

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

Division ISD

CH-9100 Herisau

Phone +41 (0)71 353 41 11

Fax +41 (0)71 353 45 90

<http://www.hubersuhner.com>

Issued: 28.7.2003 13:21

Document:

DOC-0000177758

RF_Co_Ca_PDF

uncontrolled copy

Page 2