



SUHNER® COAXIAL CABLE DATA SHEET

TYPE RG_187_A/U

Single screened coaxial cable

Cable Design



	Material	Detail	Diameter
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:	PFA (Polyfluoralkoxyalkane)	RAL 9010 - wh	2.65 mm +/- 0.1
Print:	HUBER+SUHNER	RG 187 A/U 75 Ohm (PA no.)	

Electrical Data

Impedance:	75	Ω +/-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 _{rms} (at sea level)
Test voltage:	2	kV _{rms} (50 Hz/ 1min)
Insulation resistance:	> 1	$\times 10^6$ M Ω /m

General Data

Temperature range:	-65 °C... +165 °C
Weight:	1.6 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.



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: 12.8.2004 07:53

Document:
 DOC-0000177750.DOC

RF_Co_Ca_PDF

uncontrolled copy

Page 1



SUHNER® COAXIAL CABLE DATA SHEET

TYPE RG_187_A/U

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

Coefficients:

a= 0.8777

b= 0.0649

f_{max}= 1

p_{at 1GHz} = 110

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	0.200	0.0610	491.9
0.10	0.284	0.0866	347.9
0.15	0.350	0.1067	284.0
0.20	0.405	0.1234	246.0
0.25	0.455	0.1387	220.0
0.30	0.500	0.1524	200.8
0.35	0.542	0.1652	185.9
0.40	0.581	0.1771	173.9
0.45	0.618	0.1884	164.0
0.50	0.653	0.1990	155.6
0.55	0.687	0.2094	148.3
0.60	0.719	0.2191	142.0
0.65	0.750	0.2286	136.4
0.70	0.780	0.2377	131.5
0.75	0.809	0.2466	127.0
0.80	0.837	0.2551	123.0
0.85	0.864	0.2633	119.3
0.90	0.891	0.2716	116.0
0.95	0.917	0.2795	112.9
1.00	0.943	0.2874	110.0

Test (following tests have been passed successfully)

Flame propagation: IEC 60332-3

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

Division ISD

CH-9100 Herisau

Phone +41 (0)71 353 41 11

Fax +41 (0)71 353 45 90

<http://www.hubersuhner.com>

Issued: 12.8.2004 07:53

Document:

DOC-0000177750.DOC

RF_Co_Ca_PDF

uncontrolled copy

Page 2