



SUHNER® COAXIAL CABLE DATA SHEET

TYPE G_04233D-02

Double screened coaxial cable - precision type

Cable Design



	Material	Detail	Diameter
Centre conductor:	Copper	Strand-07	0.64 mm
Dielectric:	PE (Polyethylene)		3.75 mm
1. Outer conductor:	Copper Braid	93%	4.35 mm
2. Outer conductor:	Copper Braid	92%	5 mm
Jacket:	PVC (Polyvinyl Chloride)	RAL 9005 - bk	6.7 mm +/- 0.15
Print:	HUBER+SUHNER G 04233 D-02 75 Ohm (PA no.)		

Electrical Data

Impedance:	75	Ω +/-1.5
Max. operating frequency:	3	GHz
Capacitance :	67.6	pF / m
Velocity of signal propagation:	66	%
Signal delay:	5.07	ns / m
Min. screening effectiveness:	> 78	dB (up to 3 GHz)
Max. operating voltage:	3	kV _{rms} (at sea level)
Test voltage:	6	kV _{rms} (50 Hz/ 1min)
Insulation resistance:	> 1	$\times 10^6$ M Ω /m

General Data

Temperature range:	-40 °C... +85 °C
Weight:	7.4 kg / 100 m
Min. bending radius :	static 35 mm
	repeated (for max. 50 bendings) 70 mm

Suitable Connectors

Cable group **U18**
(for details refer to the "SUHNER coaxial connector catalogue" or contact your nearest HUBER+SUHNER partner)

Notes

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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.



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>

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Page 1



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

Coefficients:

a= 0.338

b= 0.07

f_{max}= 3

p_{at 1GHz} = 130

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
0.15	0.141	0.0430	335.7
0.30	0.206	0.0628	237.3
0.45	0.258	0.0786	193.8
0.60	0.304	0.0927	167.8
0.75	0.345	0.1052	150.1
0.90	0.384	0.1170	137.0
1.05	0.420	0.1280	126.9
1.20	0.454	0.1384	118.7
1.35	0.487	0.1484	111.9
1.50	0.519	0.1582	106.1
1.65	0.550	0.1676	101.2
1.80	0.579	0.1765	96.9
1.95	0.608	0.1853	93.1
2.10	0.637	0.1941	89.7
2.25	0.665	0.2027	86.7
2.40	0.692	0.2109	83.9
2.55	0.718	0.2188	81.4
2.70	0.744	0.2268	79.1
2.85	0.770	0.2347	77.0
3.00	0.795	0.2423	75.1

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HUBER+SUHNER

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Division ISD

CH-9100 Herisau

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Page 2