



SUHNER® COAXIAL CABLE DATA SHEET

TYPE RG_225_U-05

Double screened coaxial cable

Cable Design



	Material	Detail	Diameter
Centre conductor:	Copper: Silver Plated	Strand-07	2.46 mm
Dielectric:	PFA (Polyfluoralkoxyalkane)		7.25 mm
1. Outer conductor:	Copper: Silver Plated Braid	97%	8 mm
2. Outer conductor:	Copper: Silver Plated Braid	99%	8.8 mm
Jacket:	PTFE (Polytetrafluorethyl.)		10 mm
Armour E:	AramidBraid	81%	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:	> 83	dB (up to 6 GHz)
Max. operating voltage:	5	kV _{rms} (at sea level)
Test voltage:	10	kV _{rms} (50 Hz/ 1min)
Insulation resistance:	> 1	$\times 10^6$ M Ω /m

General Data

Temperature range:	-65 °C... +125 °C
Weight:	24.2 kg / 100 m
Min. bending radius :	static 60 mm
	repeated (for max. 50 bendings) 110 mm

Suitable Connectors

Cable group / U33
(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.



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

Coefficients:

a= 0.2006

b= 0.0709

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	0.131	0.0399	1'917.0
0.60	0.198	0.0603	1'355.5
0.90	0.254	0.0774	1'106.8
1.20	0.305	0.0930	958.5
1.50	0.352	0.1073	857.3
1.80	0.397	0.1210	782.6
2.10	0.440	0.1341	724.6
2.40	0.481	0.1466	677.8
2.70	0.521	0.1588	639.0
3.00	0.560	0.1707	606.2
3.30	0.598	0.1823	578.0
3.60	0.636	0.1938	553.4
3.90	0.673	0.2051	531.7
4.20	0.709	0.2161	512.3
4.50	0.745	0.2271	495.0
4.80	0.780	0.2377	479.3
5.10	0.815	0.2484	464.9
5.40	0.849	0.2588	451.8
5.70	0.883	0.2691	439.8
6.00	0.917	0.2795	428.7

Test (following tests have been passed successfully)

Flame propagation: IEC 60332-3

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