SUHNER® COAXIAL CABLE DATA SHEET

TYPE S 02132 D

Double screened coaxial cable

Cable Design

	Material	Detail	Diameter
Centre conductor:	*CuAg*	*Wire* (*0.88* mm)	*0.88* mm
Dielectric:	*SPE*		*2.36* mm
1. Outer conductor:	*CuAg Braid*	*92*% coverage	*2.95* mm
2. Outer conductor:	*CuAg Braid*	*96*% coverage	*3.6* mm
Jacket:	*PVC2*	*RAL 9005 - bk*	*4.8* mm *+/-0.1*
Print:	*SUHNER SWITZERLAND S 02132 D 50 Ohm*		

Electrical Data

Impedance:		*50*	Ω *+/-2*
Max. operating frequency:		*6*	GHz
Capacitance :		*80.3*	pF / m
Velocity of signal propagation:		*83*	%
Signal delay:		*4.01*	ns / m
Min. screening effectiveness:		> *75*	*dB (up to 6 GHz)*
Max. operating voltage:		*0.35*	kV_{rms} (at sea level)
Test voltage:		*1*	kV_{rms} (50 Hz/ 1min)
Insulation resistance:		> *10*	MΩm

General Data

Temperature range:		*-40* °C...+ *85* °C	
Weight:		*4.5*	kg / 100 m
Min. bending radius :	*static*	*25*	*mm*
	repeated (for max. 50 bendings)	*50*	mm
	dynamic	*100*	mm

Suitable Connectors

Cable group *S8*

(for details refer to the "SUHNER coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner)

Notes

Order as *S 02132 D* under article number *22511625*

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RF_Co_Ca_PDF

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

Coefficients:

a= 0.4273 *b= 0.0718* f_{max}=. *6* $p_{at\ 1GHz}$ = *98*

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	***0.256***	***0.0780***	***178.9***
0.60	***0.374***	***0.1140***	***126.5***
0.90	***0.470***	***0.1432***	***103.3***
1.20	***0.554***	***0.1689***	***89.5***
1.50	***0.631***	***0.1923***	***80.0***
1.80	***0.703***	***0.2143***	***73.0***
2.10	***0.770***	***0.2347***	***67.6***
2.40	***0.834***	***0.2542***	***63.3***
2.70	***0.896***	***0.2731***	***59.6***
3.00	***0.956***	***0.2914***	***56.6***
3.30	***1.013***	***0.3087***	***53.9***
3.60	***1.069***	***0.3258***	***51.7***
3.90	***1.124***	***0.3426***	***49.6***
4.20	***1.177***	***0.3587***	***47.8***
4.50	***1.230***	***0.3749***	***46.2***
4.80	***1.281***	***0.3904***	***44.7***
5.10	***1.331***	***0.4057***	***43.4***
5.40	***1.381***	***0.4209***	***42.2***
5.70	***1.429***	***0.4355***	***41.0***
6.00	***1.477***	***0.4502***	***40.0***

Test (following tests have been passed successfully)

Aging: *MIL-C-17 - §4.8.16*

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