SUHNER® COAXIAL CABLE DATA SHEET

TYPE S 03133-01

Single screened coaxial cable

Cable Design

	Material	Detail	Diameter
Centre conductor:	*StCu*	*Wire* (*0.58* mm)	*0.58* mm
Dielectric:	*SPE*		*2.55* mm
1. Outer conductor:	*Cu Braid*	*94*% coverage	*3.2* mm
Jacket:	*PVC2*	*RAL 9005 - bk*	*4.5* mm *+/-0.1*
Print:	*SUHNER SWITZERLAND S 03133-01 75 Ohm*		

Electrical Data

Impedance:		*75* Ω *+/-3*
Max. operating frequency:		*1* GHz
Capacitance :		*54.4* pF / m
Velocity of signal propagation:		*82* %
Signal delay:		*4.08* ns / m
Min. screening effectiveness:	>	*39* *dB (up to 1 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:			*2.7* kg / 100 m
Min. bending radius :	*static*	*25*	*mm*
	repeated (for max. 50 bendings)	*45*	mm
	dynamic	*90*	mm

Suitable Connectors

Cable group ** / n/a*

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

Notes

Order as *S 03133-01* under article number *22511626*

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RF_Co_Ca_PDF

HUBER+SUHNER

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

Coefficients:

a= 0.3769 *b= 0.041* f_{max}=.*1* $p_{at\ 1GHz}$ = *92*

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	***0.086***	***0.0262***	***411.4***
0.10	***0.123***	***0.0375***	***290.9***
0.15	***0.152***	***0.0463***	***237.5***
0.20	***0.177***	***0.0539***	***205.7***
0.25	***0.199***	***0.0607***	***184.0***
0.30	***0.219***	***0.0667***	***168.0***
0.35	***0.237***	***0.0722***	***155.5***
0.40	***0.255***	***0.0777***	***145.5***
0.45	***0.271***	***0.0826***	***137.1***
0.50	***0.287***	***0.0875***	***130.1***
0.55	***0.302***	***0.0920***	***124.1***
0.60	***0.317***	***0.0966***	***118.8***
0.65	***0.331***	***0.1009***	***114.1***
0.70	***0.344***	***0.1048***	***110.0***
0.75	***0.357***	***0.1088***	***106.2***
0.80	***0.370***	***0.1128***	***102.9***
0.85	***0.382***	***0.1164***	***99.8***
0.90	***0.394***	***0.1201***	***97.0***
0.95	***0.406***	***0.1237***	***94.4***
1.00	***0.418***	***0.1274***	***92.0***

Test (following tests have been passed successfully)

Aging: *MIL-C-17 - §4.8.16*

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Interconnect Division
CH-9100 Herisau
Phone +41 (0)71 353 41 11
Fax +41 (0)71 353 45 90
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