SUHNER® COAXIAL CABLE DATA SHEET

TYPE S 02132

Single screened coaxial cable

Cable Design

	Material	Detail	Diameter
Centre conductor:	*CuSn*	*Strand-19* (*0.19* mm)	*0.94* mm
Dielectric:	*SPE*		*2.3* mm
1. Outer conductor:	*CuSn Braid*	*96*% coverage	*2.9* mm
Jacket:	*PVC2*	*RAL 9005 - bk*	*4.5* mm *+/-0.1*
Print:	*SUHNER SWITZERLAND S 02132 50 Ohm*		

Electrical Data

Impedance:	*50*	Ω *+/-2*
Max. operating frequency:	*2*	GHz
Capacitance :	*82.4*	pF / m
Velocity of signal propagation:	*81*	%
Signal delay:	*4.12*	ns / m
Min. screening effectiveness:	> *40*	*dB (up to 2 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:		*2.8*	kg / 100 m
Min. bending radius :	*static*	*25*	*mm*
	repeated (for max. 50 bendings)	*45*	mm
	dynamic	*85*	mm

Suitable Connectors

Cable group *S7*

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

Notes

Order as *S 02132* under article number *22511624*

Issued: 12.6.2002 16:22 Document: TEMP_PDB_22511624.PDF

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

SUHNER® COAXIAL CABLE DATA SHEET

TYPE S 02132

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

Coefficients:
a= 0.4153 *b= 0.1463* f_{max}=.*2* $p_{at\ 1GHz}$ = *90*

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
0.10	***0.146***	***0.0445***	***284.6***
0.20	***0.215***	***0.0655***	***201.2***
0.30	***0.271***	***0.0826***	***164.3***
0.40	***0.321***	***0.0978***	***142.3***
0.50	***0.367***	***0.1119***	***127.3***
0.60	***0.409***	***0.1247***	***116.2***
0.70	***0.450***	***0.1372***	***107.6***
0.80	***0.488***	***0.1487***	***100.6***
0.90	***0.526***	***0.1603***	***94.9***
1.00	***0.562***	***0.1713***	***90.0***
1.10	***0.597***	***0.1820***	***85.8***
1.20	***0.630***	***0.1920***	***82.2***
1.30	***0.664***	***0.2024***	***78.9***
1.40	***0.696***	***0.2121***	***76.1***
1.50	***0.728***	***0.2219***	***73.5***
1.60	***0.759***	***0.2313***	***71.2***
1.70	***0.790***	***0.2408***	***69.0***
1.80	***0.821***	***0.2502***	***67.1***
1.90	***0.850***	***0.2591***	***65.3***
2.00	***0.880***	***0.2682***	***63.6***

Test (following tests have been passed successfully)

Aging: *MIL-C-17 - §4.8.16*

Issued: 12.6.2002 16:22 Document: TEMP_PDB_22511624.PDF

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