



# SUHNER® COAXIAL CABLE DATA SHEET

## TYPE S\_06132

*Single screened coaxial cable*

### Cable Design



	Material	Detail	Diameter
Centre conductor:	Copper	Strand-07	2.25 mm
Dielectric:	SPE (Foamed Polyethylene)		5.85 mm
1. Outer conductor:	Copper Braid	94%	6.55 mm
Jacket:	PVC (Polyvinylchloride)	RAL 9005 - bk	8.15 mm +/- 0.1
Print:	SUHNER SWITZERLAND S 06132 50 Ohm		

### Electrical Data

Impedance:	50	$\Omega$ +/-2
Max. operating frequency:	1	GHz
Capacitance :	83	pF / m
Velocity of signal propagation:	80	%
Signal delay:	4.15	ns / m
Min. screening effectiveness:	> 39	dB (up to 1 GHz)
Max. operating voltage:	0.75	kV <sub>rms</sub> (at sea level)
Test voltage:	2	kV <sub>rms</sub> (50 Hz/ 1min)
Insulation resistance:	> 1	$\times 10^6$ M $\Omega$ /m

### General Data

Temperature range:	-40 °C... +85 °C
Weight:	9.2 kg / 100 m
Min. bending radius :	static 40 mm
	repeated (for max. 50 bendings) 80 mm
	dynamic 160 mm

### Suitable Connectors

Cable group S25 / n/a  
 (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= 0.24

b= 0.0559

f<sub>max</sub>= 1

p<sub>at 1GHz</sub> = 122

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	0.056	0.0171	545.6
0.10	0.081	0.0247	385.8
0.15	0.101	0.0308	315.0
0.20	0.119	0.0363	272.8
0.25	0.134	0.0408	244.0
0.30	0.148	0.0451	222.7
0.35	0.162	0.0494	206.2
0.40	0.174	0.0530	192.9
0.45	0.186	0.0567	181.9
0.50	0.198	0.0603	172.5
0.55	0.209	0.0637	164.5
0.60	0.219	0.0667	157.5
0.65	0.230	0.0701	151.3
0.70	0.240	0.0731	145.8
0.75	0.250	0.0762	140.9
0.80	0.259	0.0789	136.4
0.85	0.269	0.0820	132.3
0.90	0.278	0.0847	128.6
0.95	0.287	0.0875	125.2
1.00	0.296	0.0902	122.0

**Test** (following tests have been passed successfully)

Aging:                      MIL-C-17 - §4.8.16

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