



SUHNER® COAXIAL CABLE DATA SHEET

TYPE S_06132_D-10

Double screened coaxial cable

Cable Design



	Material	Detail	Diameter	
Centre conductor:	Copper: Silver Plated	Strand-07	2.25 mm	
Dielectric:	SPE (Foamed Polyethylene)		5.8 mm	
1. Outer conductor:	Copper: Silver Plated Braid	94%	6.55 mm	
2. Outer conductor:	Copper: Silver Plated Braid	96%	7.25 mm	
Jacket:	PVC (Polyvinyl Chloride)	RAL 9005 - bk	8.95 mm	+/- 0.15
Print:	HUBER+SUHNER S 06132 D-10 50 Ohm (PA no.)			

Electrical Data

Impedance:	50	Ω +/-2
Max. operating frequency:	4	GHz
Capacitance :	82	pF / m
Velocity of signal propagation:	81.5	%
Signal delay:	4.1	ns / m
Min. screening effectiveness:	>	dB (up to GHz)
Max. operating voltage:	0.75	kV _{rms} (at sea level)
Test voltage:	2	kV _{rms} (50 Hz/ 1min)
Insulation resistance:	> 1	$\times 10^6$ M Ω /m

General Data

Temperature range:	-40 °C... +85 °C
Weight:	14 kg / 100 m
Min. bending radius :	static 25 mm
	repeated (for max. 50 bendings) 50 mm

Suitable Connectors

Cable group S26
(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 : $(a \cdot f^{0.5} + b \cdot f)$] and **Power CW** [formula : $(p^* / f^{0.5})$]

Coefficients:

a= 0.202

b= 0.0668

$f_{\max} = 4$

$p_{\text{at } 1\text{GHz}} = 125$

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
0.20	0.104	0.0317	279.5
0.40	0.154	0.0469	197.6
0.60	0.197	0.0600	161.4
0.80	0.234	0.0713	139.8
1.00	0.269	0.0820	125.0
1.20	0.301	0.0917	114.1
1.40	0.333	0.1015	105.6
1.60	0.362	0.1103	98.8
1.80	0.391	0.1192	93.2
2.00	0.419	0.1277	88.4
2.20	0.447	0.1362	84.3
2.40	0.473	0.1442	80.7
2.60	0.499	0.1521	77.5
2.80	0.525	0.1600	74.7
3.00	0.550	0.1676	72.2
3.20	0.575	0.1753	69.9
3.40	0.600	0.1829	67.8
3.60	0.624	0.1902	65.9
3.80	0.648	0.1975	64.1
4.00	0.671	0.2045	62.5

Test (following tests have been passed successfully)

Aging: MIL-C-17 - §4.8.16

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