



SUHNER® COAXIAL CABLE DATA SHEET

TYPE S 02162 B

High screened coaxial cable - flame retardant - free of halogen

Cable Design



	Material	Detail	Diameter
Centre conductor:	Cu	Strand-07 (0.27 mm)	0.8 mm
Dielectric:	SPE		2.1 mm
1. Outer conductor:	Al-PES longitudinal Foil	100% coverage	2.15 mm
2. Outer conductor:	CuSn Braid	92% coverage	2.67 mm
Jacket:	LSFH	RAL 9005 - bk	3.15 mm +/-0.05
Print:	SUHNER SWITZERLAND S 02162 B 50 Ohm		

Electrical Data

Impedance:	50 Ω +/-2
Max. operating frequency:	6 GHz
Capacitance :	81 pF / m
Velocity of signal propagation:	83 %
Signal delay:	4.01 ns / m
Min. screening effectiveness:	> 88 dB (up to 6 GHz)
Max. operating voltage:	0.25 kV _{rms} (at sea level)
Test voltage:	3 kV _{rms} (50 Hz/ 1min)
Insulation resistance:	> 10 M Ω m

General Data

Temperature range:	-40 °C...+ 85 °C
Weight:	2.1 kg / 100 m
Min. bending radius :	static 9 mm
	repeated (for max. 50 bendings) 30 mm

Suitable Connectors

Cable group S9
(for details refer to the "SUHNER coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner)

Notes

Order as **S 02162 B** under article number **22512310**

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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>

Issued: 26.6.2002 11:13

Document: TEMP_PDB_2251231
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Matrix Attenuation [formula : (a*f^0.5 +b*f)] and Power CW [formula : (p*/f^0.5)]

Coefficients:

a= 0.436

b= 0.0409

f_{max}= 6

p_{at 1GHz} = 82

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	0.251	0.0765	149.7
0.60	0.362	0.1103	105.9
0.90	0.450	0.1372	86.4
1.20	0.527	0.1606	74.9
1.50	0.595	0.1813	67.0
1.80	0.659	0.2009	61.1
2.10	0.718	0.2188	56.6
2.40	0.774	0.2359	52.9
2.70	0.827	0.2521	49.9
3.00	0.878	0.2676	47.3
3.30	0.927	0.2825	45.1
3.60	0.974	0.2969	43.2
3.90	1.021	0.3112	41.5
4.20	1.065	0.3246	40.0
4.50	1.109	0.3380	38.7
4.80	1.152	0.3511	37.4
5.10	1.193	0.3636	36.3
5.40	1.234	0.3761	35.3
5.70	1.274	0.3883	34.3
6.00	1.313	0.4002	33.5

Test (following tests have been passed successfully)

Flame propagation: IEC 332-1 UL 1581 - §1080 (VW-1)

Halogen content IEC 754

Stress: VW TL 821 33

Aging: VW TL 821 33

Abrasion: MIL-T-81490 - §4.7.19 - prod. II - modified

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