



SUHNER® COAXIAL CABLE DATA SHEET

TYPE S 03232 B-04

High screened coaxial cable

Cable Design



	Material	Detail	Diameter
Centre conductor:	CuAg	Wire (1.1 mm)	1.1 mm
Dielectric:	SPE		2.96 mm
1. Outer conductor:	Al-PETP longitudinal Foil	100% coverage	3.05 mm
2. Outer conductor:	CuSn Braid	90% coverage	3.8 mm
Jacket:	UL-PVC	RAL 9005 - bk	5 mm +/-0.15
Print:	SUHNER SWITZERLAND S 03232 B-04 50 Ohm		
Screen:	n/a		

Electrical Data

Impedance:	50 Ω +/-2
Max. operating frequency:	5 GHz
Capacitance :	81.6 pF / m
Velocity of signal propagation:	82 %
Signal delay:	4.08 ns / m
Min. screening effectiveness:	> 85 dB (up to 6 GHz)
Max. operating voltage:	0.4 kV _{rms} (at sea level)
Test voltage:	1 kV _{rms} (50 Hz/ 1min)
Insulation resistance:	> 10 M Ω m

General Data

Temperature range:	-20 °C...+ 85 °C
Weight:	3.9 kg / 100 m
Min. bending radius :	static 50 mm
	repeated (for max. 50 bendings) 80 mm

Suitable Connectors

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

Notes

Order as **S 03232 B-04** under article number **22512116**

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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= 0.336

b= 0.042

f_{max}= 5

p_{at 1GHz} = 100

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
0.25	0.179	0.0546	200.0
0.50	0.259	0.0789	141.4
0.75	0.322	0.0981	115.5
1.00	0.378	0.1152	100.0
1.25	0.428	0.1304	89.4
1.50	0.475	0.1448	81.6
1.75	0.518	0.1579	75.6
2.00	0.559	0.1704	70.7
2.25	0.599	0.1826	66.7
2.50	0.636	0.1938	63.2
2.75	0.673	0.2051	60.3
3.00	0.708	0.2158	57.7
3.25	0.742	0.2262	55.5
3.50	0.776	0.2365	53.5
3.75	0.808	0.2463	51.6
4.00	0.840	0.2560	50.0
4.25	0.871	0.2655	48.5
4.50	0.902	0.2749	47.1
4.75	0.932	0.2841	45.9
5.00	0.961	0.2929	44.7

Test (following tests have been passed successfully)

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

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