



SUHNER® MICROWAVE CABLE DATA SHEET

TYPE S 04272 B

S-SERIES, the economical low loss microwave cable

Cable Design



	Material	Detail	Diameter
Centre conductor:	CuAg	Wire	1.4 mm
Dielectric:	SPE		3.82 mm
1. Outer conductor:	Al longitudinal Foil	100% coverage	3.96 mm
2. Outer conductor:	CuSn Braid	86% coverage	4.48 mm
Jacket:	PE	RAL 5014 - bl	5.5 mm
Print:	SUHNER SWITZERLAND S 04272 B 50 Ohm		

Electrical Data

Impedance:	50	Ω
Max. operating frequency:	18	GHz
Capacitance:	82	pF / m
Velocity of signal propagation:	82	%
Signal delay:	4.1	ns / m
Min. screening effectiveness:	> 90	dB (up to 18 GHz)
Max. operating voltage:	0.5	kV _{rms} (at sea level)

General Data

Temperature range:	-40 °C...+ 85 °C
Weight:	4.4 kg / 100 m
Min. bending radius :	static 25 mm
	dynamic 90 mm

Suitable Connectors

Cable group n/a

(for details refer to the "SUHNER Microwave Cables and Assemblies General Catalogue" or contact you nearest HUBER+SUHNER partner)

Notes

Order as **S 04272 B** under article number **22511622**

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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>

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Matrix **Attenuation** [formula : $(a \cdot f^{0.5} + b \cdot f)$] and **Power CW** [formula : $(p^2 / f^{0.5})$]

Coefficients:

a= 0.197

b= 0.045

f_{max}= 18

p_{at 1GHz} = 120

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
0.5	0.16	0.049	170
1	0.24	0.073	120
2	0.37	0.113	85
3	0.48	0.146	69
4	0.57	0.174	60
5	0.67	0.204	54
6	0.75	0.229	49
7	0.84	0.256	45
8	0.92	0.280	42
9	1.00	0.305	40
10	1.07	0.326	38
11	1.15	0.351	36
12	1.22	0.372	35
13	1.30	0.396	33
14	1.37	0.418	32
15	1.44	0.439	31
16	1.51	0.460	30
17	1.58	0.482	29
18	1.65	0.503	28

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