



SUHNER® COAXIAL CABLE DATA SHEET

TYPE S 07212 BD

High flexible - low-loss - high screened coaxial cable - free of halogen - precision type

Cable Design



	Material	Detail	Diameter
Centre conductor:	CuAg	Strand-07 (0.95 mm)	2.82 mm
Dielectric:	SPE		7.35 mm
1. Outer conductor:	CuAg Braid	96% coverage	8 mm
2. Outer conductor:	Cu wrapped Foil	100% coverage	8.1 mm
3. Outer conductor:	CuSn Braid	93% coverage	9 mm
Jacket:	PUR	RAL 9005 - bk	10.8 mm +/-0.1
Print:	SUHNER SWITZERLAND S 07212 BD 50 Ohm		

Electrical Data

Impedance:	50 Ω +/-1
Max. operating frequency:	3 GHz
Capacitance :	82.6 pF / m
Velocity of signal propagation:	81 %
Signal delay:	4.13 ns / m
Min. screening effectiveness:	> 105 dB (up to 3 GHz)
Max. operating voltage:	1.05 kV _{rms} (at sea level)
Test voltage:	2 kV _{rms} (50 Hz/ 1min)
Insulation resistance:	> 10 M Ω m

General Data

Temperature range:	-40 °C...+ 85 °C
Weight:	20.6 kg / 100 m
Min. bending radius :	static 70 mm
	repeated (for max. 50 bendings) 110 mm

Suitable Connectors

Cable group S32 / n/a
(for details refer to the "SUHNER coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner)

Notes

Order as **S 07212 BD** under article number **22511864**

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

Coefficients:

$a = 0.1507$

$b = 0.053$

$f_{\max} = 3$

$p_{\text{at } 1\text{GHz}} = 550$

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
0.15	0.066	0.0201	1'420.1
0.30	0.098	0.0299	1'004.2
0.45	0.125	0.0381	819.9
0.60	0.149	0.0454	710.0
0.75	0.170	0.0518	635.1
0.90	0.191	0.0582	579.8
1.05	0.210	0.0640	536.7
1.20	0.229	0.0698	502.1
1.35	0.247	0.0753	473.4
1.50	0.264	0.0805	449.1
1.65	0.281	0.0856	428.2
1.80	0.298	0.0908	409.9
1.95	0.314	0.0957	393.9
2.10	0.330	0.1006	379.5
2.25	0.345	0.1052	366.7
2.40	0.361	0.1100	355.0
2.55	0.376	0.1146	344.4
2.70	0.391	0.1192	334.7
2.85	0.405	0.1234	325.8
3.00	0.420	0.1280	317.5

Halogen content IEC 754

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