



SUHNER® COAXIAL CABLE DATA SHEET

TYPE S 10172 B-11

Double screened low loss coaxial cable - flame retardant - free of halogen

Cable Design



	Material	Detail	Diameter
Centre conductor:	CuAl	Wire (3.78 mm)	3.78 mm
Dielectric:	SPE		9.75 mm
1. Outer conductor:	Cu longitudinal Foil	100% coverage	9.85 mm
2. Outer conductor:	Cu Braid	80% coverage	10.7 mm
Jacket:	PE	RAL 9005 - bk	12.9 mm +/-0.1
Print:	SUHNER SWITZERLAND S 10172 B-11 50 Ohm		

Electrical Data

Impedance:	50	Ω +/-2
Max. operating frequency:	7.5	GHz
Capacitance :	77	pF / m
Velocity of signal propagation:	87	%
Signal delay:	3.85	ns / m
Min. screening effectiveness:	> 90	dB (up to 7.5 GHz)
Max. operating voltage:	1.5	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:	15 kg / 100 m
Min. bending radius :	static 50 mm
	repeated (for max. 50 bendings) 60 mm

Suitable Connectors

Cable group *n/a / S39*
(for details refer to the "SUHNER coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner)

Notes

Order as **S 10172 B-11** under article number **22512320**

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

Coefficients:

$a = 0.0826$

$b = 0.0129$

$f_{\max} = 7.5$

$p_{\text{at } 1\text{GHz}} = 700$

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
0.38	0.056	0.0171	1'135.5
0.75	0.081	0.0247	808.3
1.13	0.102	0.0311	658.5
1.50	0.121	0.0369	571.5
1.88	0.138	0.0421	510.5
2.25	0.153	0.0466	466.7
2.63	0.168	0.0512	431.6
3.00	0.182	0.0555	404.1
3.38	0.195	0.0594	380.7
3.75	0.208	0.0634	361.5
4.13	0.221	0.0674	344.4
4.50	0.233	0.0710	330.0
4.88	0.245	0.0747	316.9
5.25	0.257	0.0783	305.5
5.63	0.269	0.0820	295.0
6.00	0.280	0.0853	285.8
6.38	0.291	0.0887	277.1
6.75	0.302	0.0920	269.4
7.13	0.313	0.0954	262.2
7.50	0.323	0.0984	255.6

Halogen content IEC 754

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