



SUHNER® COAXIAL CABLE DATA SHEET

TYPE S 02123-03

Single screened coaxial cable

Cable Design



	Material	Detail	Diameter
Centre conductor:	Cu	Wire (0.54 mm)	0.54 mm
Dielectric:	SPE		2.4 mm
1. Outer conductor:	Cu Braid	93% coverage	2.9 mm
Jacket:	PVC (no print)	RAL 6018 - gn	3.5 mm +/-0.1

Electrical Data

Impedance:	75 Ω +/-6
Max. operating frequency:	1 GHz
Capacitance :	54.4 pF / m
Velocity of signal propagation:	82 %
Signal delay:	4.08 ns / m
Min. screening effectiveness:	> 40 dB (up to 1 GHz)
Max. operating voltage:	0.35 kV _{rms} (at sea level)
Test voltage:	1 kV _{rms} (50 Hz/ 1min)
Insulation resistance:	> 10 M Ω m

General Data

Temperature range:	-40 °C...+ 85 °C
Weight:	1.8 kg / 100 m
Min. bending radius :	static 20 mm
	repeated (for max. 50 bendings) 35 mm
	dynamic 60 mm

Suitable Connectors

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

Notes

Order as **S 02123-03** under article number **22511456**

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

Coefficients:

a= 0.3563

b= 0.1997

f_{max}= 1

p_{at 1GHz} = 77

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
0.05	0.090	0.0274	344.4
0.10	0.133	0.0405	243.5
0.15	0.168	0.0512	198.8
0.20	0.199	0.0607	172.2
0.25	0.228	0.0695	154.0
0.30	0.255	0.0777	140.6
0.35	0.281	0.0856	130.2
0.40	0.305	0.0930	121.7
0.45	0.329	0.1003	114.8
0.50	0.352	0.1073	108.9
0.55	0.374	0.1140	103.8
0.60	0.396	0.1207	99.4
0.65	0.417	0.1271	95.5
0.70	0.438	0.1335	92.0
0.75	0.458	0.1396	88.9
0.80	0.478	0.1457	86.1
0.85	0.498	0.1518	83.5
0.90	0.518	0.1579	81.2
0.95	0.537	0.1637	79.0
1.00	0.556	0.1695	77.0

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