



SUHNER® COAXIAL CABLE DATA SHEET

TYPE G 03333-06

Single screened triaxial cable - precision type

Cable Design



	Material	Detail	Diameter
Centre conductor:	StCu	Wire (0.4 mm)	0.4 mm
Dielectric:	PE		2.5 mm
1. Outer conductor:	CuSn Braid	91% coverage	3 mm
Jacket:	PETP		3.3 mm
Armour E:	CuSn Braid	92% coverage	3.7 mm
Jacket:	PVC	RAL 7035 - gr	4.5 mm +/-0.3
Print:	SUHNER SWITZERLAND G 03333-06 75 Ohm		

Electrical Data

Impedance:	75 Ω +/-1.5
Max. operating frequency:	1 GHz
Capacitance :	67.1 pF / m
Velocity of signal propagation:	66 %
Signal delay:	5.03 ns / m
Min. screening effectiveness:	> 40 dB (up to 1 GHz)
Max. operating voltage:	1 kV _{rms} (at sea level)
Test voltage:	3 kV _{rms} (50 Hz/ 1min)
Insulation resistance:	> 10 M Ω m

General Data

Temperature range:	-20 °C...+ 85 °C
Weight:	3.5 kg / 100 m
Min. bending radius :	static 25 mm
	repeated (for max. 50 bendings) 45 mm
	dynamic 90 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 **G 03333-06** under article number **22511914**

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

Coefficients:

$a = 0.472$

$b = 0.117$

$f_{\max} = 1$

$p_{\text{at } 1\text{GHz}} = 60$

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	0.111	0.0338	268.3
0.10	0.161	0.0491	189.7
0.15	0.200	0.0610	154.9
0.20	0.234	0.0713	134.2
0.25	0.265	0.0808	120.0
0.30	0.294	0.0896	109.5
0.35	0.320	0.0975	101.4
0.40	0.345	0.1052	94.9
0.45	0.369	0.1125	89.4
0.50	0.392	0.1195	84.9
0.55	0.414	0.1262	80.9
0.60	0.436	0.1329	77.5
0.65	0.457	0.1393	74.4
0.70	0.477	0.1454	71.7
0.75	0.497	0.1515	69.3
0.80	0.516	0.1573	67.1
0.85	0.535	0.1631	65.1
0.90	0.553	0.1685	63.2
0.95	0.571	0.1740	61.6
1.00	0.589	0.1795	60.0

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