



SUHNER® COAXIAL CABLE DATA SHEET

TYPE G 03332

Single screened triaxial cable

Cable Design



	Material	Detail	Diameter
Centre conductor:	Cu	Strand-07 (0.32 mm)	0.93 mm
Dielectric:	PE		2.95 mm
1. Outer conductor:	Cu Braid	95% coverage	3.6 mm
Jacket:	PVC	RAL 9005 - bk	5 mm
Armour E:	Cu Braid	91% coverage	5.7 mm
Jacket:	PVC	RAL 9005 - bk	7.3 mm +/-0.3
Print:	SUHNER SWITZERLAND G 03332 50 Ohm		

Electrical Data

Impedance:	50 Ω +/-2
Max. operating frequency:	1 GHz
Capacitance :	100.7 pF / m
Velocity of signal propagation:	66 %
Signal delay:	5 ns / m
Min. screening effectiveness:	> 40 dB (up to 1 GHz)
Max. operating voltage:	2.5 kV _{rms} (at sea level)
Test voltage:	5 kV _{rms} (50 Hz/ 1min)
Insulation resistance:	> 10 M Ω m

General Data

Temperature range:	-40 °C...+ 85 °C
Weight:	9 kg / 100 m
Min. bending radius :	static 60 mm
	repeated (for max. 50 bendings) 120 mm
	dynamic 240 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 03332** under article number **22510149**

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

Coefficients:

$a = 0.4027$

$b = 0.08$

$f_{\max} = 1$

$p_{\text{at } 1\text{GHz}} = 130$

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	0.094	0.0286	581.4
0.10	0.135	0.0411	411.1
0.15	0.168	0.0512	335.7
0.20	0.196	0.0597	290.7
0.25	0.221	0.0674	260.0
0.30	0.245	0.0747	237.3
0.35	0.266	0.0811	219.7
0.40	0.287	0.0875	205.5
0.45	0.306	0.0933	193.8
0.50	0.325	0.0991	183.8
0.55	0.343	0.1045	175.3
0.60	0.360	0.1097	167.8
0.65	0.377	0.1149	161.2
0.70	0.393	0.1198	155.4
0.75	0.409	0.1247	150.1
0.80	0.424	0.1292	145.3
0.85	0.439	0.1338	141.0
0.90	0.454	0.1384	137.0
0.95	0.469	0.1429	133.4
1.00	0.483	0.1472	130.0

Halogen content IEC 754

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