



SUHNER® COAXIAL CABLE DATA SHEET

TYPE G 02332

Single screened triaxial cable

Cable Design



	Material	Detail	Diameter
Centre conductor:	Cu	Strand-07 (0.16 mm)	0.49 mm
Dielectric:	PE		1.5 mm
1. Outer conductor:	Cu Braid	96% coverage	2 mm
Jacket:	PVC (no print)	RAL 7035 - gr	2.8 mm +/- 0.13
Armour E:	Cu Braid	91% coverage	3.05 mm
Jacket:	PVC	RAL 9005 - bk	4.25 mm +/- 0.15
Print:	SUHNER 50 +/- 2 Ohm		

Electrical Data

Impedance:	50 Ω +/- 2
Max. operating frequency:	2 GHz
Capacitance :	100.7 pF / m
Velocity of signal propagation:	66 %
Signal delay:	5.03 ns / m
Min. screening effectiveness:	> 55 dB (up to 2 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:	3 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 / W1
(for details refer to the "SUHNER coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner)	

Notes

Order as **G 02332** under article number **22510117**

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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:

$a = 0.817$

$b = 0.1489$

$f_{\max} = 2$

$p_{\text{at } 1\text{GHz}} = 38$

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
0.10	0.273	0.0832	120.2
0.20	0.395	0.1204	85.0
0.30	0.492	0.1500	69.4
0.40	0.576	0.1756	60.1
0.50	0.652	0.1987	53.7
0.60	0.722	0.2201	49.1
0.70	0.788	0.2402	45.4
0.80	0.850	0.2591	42.5
0.90	0.909	0.2770	40.1
1.00	0.966	0.2944	38.0
1.10	1.021	0.3112	36.2
1.20	1.074	0.3273	34.7
1.30	1.125	0.3429	33.3
1.40	1.175	0.3581	32.1
1.50	1.224	0.3731	31.0
1.60	1.272	0.3877	30.0
1.70	1.318	0.4017	29.1
1.80	1.364	0.4157	28.3
1.90	1.409	0.4294	27.6
2.00	1.453	0.4429	26.9

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