



SUHNER® COAXIAL CABLE DATA SHEET

TYPE G 03333-61

Single screened triaxial cable (UL AWM)

Cable Design



	Material	Detail	Diameter
Centre conductor:	Cu	Strand-07 (0.16 mm)	0.49 mm
Dielectric:	PE		2.95 mm
1. Outer conductor:	Cu Braid	95% coverage	3.6 mm
Jacket:	UL-PVC (no print)	RAL 9005 - bk	5 mm
Armour E:	Cu Braid	90% coverage	5.7 mm
Jacket:	UL-PVC	RAL 9005 - bk	7.35 mm +/-0.1
Print:	SUHNER SWITZERLAND G 03333-61 (UR) AWM STYLE 1375		

Electrical Data

Impedance:	75 Ω +/-3
Max. operating frequency:	1 GHz
Capacitance :	67 pF / m
Velocity of signal propagation:	66 %
Signal delay:	5.02 ns / m
Min. screening effectiveness:	> 40 dB (up to 1 GHz)
Max. operating voltage:	1 kV _{rms} (at sea level)
Test voltage:	2 kV _{rms} (50 Hz/ 1min)
Insulation resistance:	> 10 M Ω m

General Data

Temperature range:	-20 °C...+ 85 °C
Weight:	8.4 kg / 100 m
Min. bending radius :	static 40 mm
	repeated (for max. 50 bendings) 75 mm
	dynamic 150 mm

Suitable Connectors

Cable group	n/a / W3
(for details refer to the "SUHNER coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner)	

Notes

Order as **G 03333-61** under article number **23006074**

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

Coefficients:

$a = 0.5058$

$b = 0.0419$

$f_{\max} = 1$

$p_{\text{at } 1\text{GHz}} = 82$

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	0.115	0.0351	366.7
0.10	0.164	0.0500	259.3
0.15	0.202	0.0616	211.7
0.20	0.235	0.0716	183.4
0.25	0.263	0.0802	164.0
0.30	0.290	0.0884	149.7
0.35	0.314	0.0957	138.6
0.40	0.337	0.1027	129.7
0.45	0.358	0.1091	122.2
0.50	0.379	0.1155	116.0
0.55	0.398	0.1213	110.6
0.60	0.417	0.1271	105.9
0.65	0.435	0.1326	101.7
0.70	0.453	0.1381	98.0
0.75	0.469	0.1429	94.7
0.80	0.486	0.1481	91.7
0.85	0.502	0.1530	88.9
0.90	0.518	0.1579	86.4
0.95	0.533	0.1625	84.1
1.00	0.548	0.1670	82.0

Flame propagation: *UL (horizontal flame test)*

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