



# SUHNER® COAXIAL CABLE DATA SHEET

## TYPE GX 02272-06

*Single screened coaxial cable - flame retardant - free of halogen*

### Cable Design



	Material	Detail	Diameter
Centre conductor:	Cu	Strand-07 ( 0.16 mm)	0.49 mm
Dielectric:	PEX		1.5 mm
1. Outer conductor:	CuAg Braid	96% coverage	2 mm
2. Outer conductor:	n/a n/a		
3. Outer conductor:	n/a n/a		
Jacket:	RADOX	RAL 9005 - bk	2.8 mm +/-0.1
Print:	BLUE AUDIO SYSTEMS of SWITZERLAND		

### Electrical Data

Impedance:	50 $\Omega$ +/-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:	> 40 dB (up to 2 GHz)
Max. operating voltage:	1.5 kV <sub>rms</sub> (at sea level)
Test voltage:	3 kV <sub>rms</sub> (50 Hz/ 1min)
Insulation resistance:	> 10 M $\Omega$ m

### General Data

Temperature range:	-25 °C...+ 100 °C
Weight:	1.45 kg / 100 m
Min. bending radius :	static 15 mm
	repeated (for max. 50 bendings) 30 mm
	dynamic 60 mm

### Suitable Connectors

Cable group	U2 / n/a
(for details refer to the "SUHNER coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner)	

### Notes

Order as **GX 02272-06** under article number **22511825**

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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:

$a = 0.89$

$b = 0.196$

$f_{\max} = 2$

$p_{\text{at } 1\text{GHz}} = 90$

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	0.301	0.0917	284.6
0.20	0.437	0.1332	201.2
0.30	0.546	0.1664	164.3
0.40	0.641	0.1954	142.3
0.50	0.727	0.2216	127.3
0.60	0.807	0.2460	116.2
0.70	0.882	0.2688	107.6
0.80	0.953	0.2905	100.6
0.90	1.021	0.3112	94.9
1.00	1.086	0.3310	90.0
1.10	1.149	0.3502	85.8
1.20	1.210	0.3688	82.2
1.30	1.270	0.3871	78.9
1.40	1.327	0.4044	76.1
1.50	1.384	0.4218	73.5
1.60	1.439	0.4386	71.2
1.70	1.494	0.4553	69.0
1.80	1.547	0.4715	67.1
1.90	1.599	0.4874	65.3
2.00	1.651	0.5032	63.6

Halogen content      IEC 754

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