



# SUHNER® COAXIAL CABLE DATA SHEET

## TYPE GX 03272

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

### Cable Design



	Material	Detail	Diameter
Centre conductor:	CuSn	Strand-19 ( 0.19 mm)	0.94 mm
Dielectric:	PEX		2.95 mm
1. Outer conductor:	CuAg Braid	96% coverage	3.6 mm
Jacket:	RADOX	RAL 9005 - bk	4.95 mm +/-0.1
Print:	SUHNER SWITZERLAND GX 03272 50 Ohm		

### Electrical Data

Impedance:	50 $\Omega$ +/-2
Max. operating frequency:	2.2 GHz
Capacitance :	100.7 pF / m
Velocity of signal propagation:	66 %
Signal delay:	5.03 ns / m
Min. screening effectiveness:	> 39 dB (up to 2.2 GHz)
Max. operating voltage:	2.5 kV <sub>rms</sub> (at sea level)
Test voltage:	5 kV <sub>rms</sub> (50 Hz/ 1min)
Insulation resistance:	> 10 M $\Omega$ m

### General Data

Temperature range:	-25 °C...+ 100 °C
Weight:	4 kg / 100 m
Min. bending radius :	static 25 mm
	repeated (for max. 50 bendings) 50 mm
	dynamic 90 mm

### Suitable Connectors

Cable group	U7 / U7
(for details refer to the "SUHNER coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner)	

### Notes

Order as **GX 03272** under article number **22510959**

#### WAIVER!

While the information contained in this folder has been carefully compiled to the best of our present knowledge, it is not intended as representation or warranty of any kind on our part regarding the fitness of the products concerned for any particular use or purpose and neither shall any statement contained herein be constructed as a recommendation to infringe any industrial property rights or as a license to use any such rights. The fitness of each product for any particular purpose must be checked beforehand with our specialists.



**HUBER+SUHNER**

HUBER+SUHNER AG  
Interconnect Division  
CH-9100 Herisau  
Phone +41 (0)71 353 41 11  
Fax +41 (0)71 353 45 90  
<http://www.hubersuhner.com>

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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:

$a = 0.407$

$b = 0.1637$

$f_{\max} = 2.2$

$p_{\text{at } 1\text{GHz}} = 205$

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
0.11	0.153	0.0466	618.1
0.22	0.227	0.0692	437.1
0.33	0.288	0.0878	356.9
0.44	0.342	0.1042	309.0
0.55	0.392	0.1195	276.4
0.66	0.439	0.1338	252.3
0.77	0.483	0.1472	233.6
0.88	0.526	0.1603	218.5
0.99	0.567	0.1728	206.0
1.10	0.607	0.1850	195.5
1.21	0.646	0.1969	186.4
1.32	0.684	0.2085	178.4
1.43	0.721	0.2198	171.4
1.54	0.757	0.2307	165.2
1.65	0.793	0.2417	159.6
1.76	0.828	0.2524	154.5
1.87	0.863	0.2630	149.9
1.98	0.897	0.2734	145.7
2.09	0.931	0.2838	141.8
2.20	0.964	0.2938	138.2

**Test** (following tests have been passed successfully)

Flame propagation: IEC 332-1

Halogen content IEC 754

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