



# SUHNER® COAXIAL CABLE DATA SHEET

## TYPE GX 02273 D

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

### Cable Design



	Material	Detail	Diameter
Centre conductor:	StCu	Wire ( 0.24 mm)	0.24 mm
Dielectric:	PEX		1.5 mm
1. Outer conductor:	CuAg Braid	96% coverage	2 mm
2. Outer conductor:	CuAg Braid	93% coverage	2.5 mm
Jacket:	RADOX	RAL 9005 - bk	3.3 mm +/-0.1
Print:	SUHNER SWITZERLAND GX 02273 D 75 Ohm		

### Electrical Data

Impedance:	75 $\Omega$ +/-3
Max. operating frequency:	2 GHz
Capacitance :	67.1 pF / m
Velocity of signal propagation:	66 %
Signal delay:	5.03 ns / m
Min. screening effectiveness:	> 81 dB (up to 1 GHz)
Max. operating voltage:	1 kV <sub>rms</sub> (at sea level)
Test voltage:	2 kV <sub>rms</sub> (50 Hz/ 1min)
Insulation resistance:	> 10 M $\Omega$ m

### General Data

Temperature range:	-25 °C...+ 100 °C
Weight:	2.12 kg / 100 m
Min. bending radius :	static 20 mm
	repeated (for max. 50 bendings) 35 mm

### Suitable Connectors

Cable group	U5 / n/a
(for details refer to the "SUHNER coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner)	

### Notes

Order as **GX 02273 D** under article number **22511507**

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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>

Issued: 20.6.2002 15:21

Document: TEMP\_PDB\_2251150  
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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:

$a = 0.8703$

$b = 0.0869$

$f_{\max} = 2$

$p_{\text{at } 1\text{GHz}} = 65$

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	0.284	0.0866	205.5
0.20	0.407	0.1240	145.3
0.30	0.503	0.1533	118.7
0.40	0.585	0.1783	102.8
0.50	0.659	0.2009	91.9
0.60	0.726	0.2213	83.9
0.70	0.789	0.2405	77.7
0.80	0.848	0.2585	72.7
0.90	0.904	0.2755	68.5
1.00	0.957	0.2917	65.0
1.10	1.008	0.3072	62.0
1.20	1.058	0.3225	59.3
1.30	1.105	0.3368	57.0
1.40	1.151	0.3508	54.9
1.50	1.196	0.3645	53.1
1.60	1.240	0.3779	51.4
1.70	1.282	0.3907	49.9
1.80	1.324	0.4035	48.4
1.90	1.365	0.4160	47.2
2.00	1.405	0.4282	46.0

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

Flame propagation: IEC 332-1

Halogen content IEC 754

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CH-9100 Herisau  
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Fax +41 (0)71 353 45 90  
<http://www.hubersuhner.com>