



# SUHNER® COAXIAL CABLE DATA SHEET

## TYPE GX\_07272

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

### Cable Design



	<b>Material</b>	<b>Detail</b>	<b>Diameter</b>
Centre conductor:	Copper	Strand-07	2.25 mm
Dielectric:	PEX (Polyethylene cross-linked)		7.25 mm
1. Outer conductor:	Copper: Silver Plated Braid	95%	8.15 mm
Jacket:	RADOX (LSFH)	RAL 9005 - bk	10.3 mm +/- 0.1
Print:	HUBER+SUHNER GX 07272 50 Ohm (PA no.)		

### 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:	> 41	dB (up to 2 GHz)
Max. operating voltage:	5	kV <sub>rms</sub> (at sea level)
Test voltage:	10	kV <sub>rms</sub> (50 Hz/ 1min)
Insulation resistance:	> 1	$\times 10^6$ M $\Omega$ /m

### General Data

Temperature range:	-40 °C... +105 °C
Weight:	16.1 kg / 100 m
Min. bending radius :	static 55 mm
	repeated (for max. 50 bendings) 100 mm

### Suitable Connectors

Cable group *U29 / U28*  
 (for details refer to the "SUHNER coaxial connector catalogue" or contact your nearest HUBER+SUHNER partner)

### Notes

#### 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 construed 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.



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Issued: 30.7.2004 12:29

Document:  
 DOC-0000177670.DOC

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

Coefficients:

a= 0.171

b= 0.058

f<sub>max</sub>= 2

p<sub>at 1GHz</sub> = 560

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	0.060	0.0183	1770.9
0.20	0.088	0.0268	1252.2
0.30	0.111	0.0338	1022.4
0.40	0.131	0.0399	885.4
0.50	0.150	0.0457	792.0
0.60	0.167	0.0509	723.0
0.70	0.184	0.0561	669.3
0.80	0.199	0.0607	626.1
0.90	0.214	0.0652	590.3
1.00	0.229	0.0698	560.0
1.10	0.243	0.0741	533.9
1.20	0.257	0.0783	511.2
1.30	0.270	0.0823	491.2
1.40	0.284	0.0866	473.3
1.50	0.296	0.0902	457.2
1.60	0.309	0.0942	442.7
1.70	0.322	0.0981	429.5
1.80	0.334	0.1018	417.4
1.90	0.346	0.1055	406.3
2.00	0.358	0.1091	396.0

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

Flame propagation: IEC 60332-1

Halogen content: IEC 60754

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