



SUHNER® COAXIAL CABLE DATA SHEET

TYPE GX_03272

Single screened coaxial cable - flame retardant - free of halogen

Cable Design



	Material	Detail	Diameter
Centre conductor:	Copper: Tin Plated	Strand-19	0.94 mm
Dielectric:	PEX (Polyethylene cross-linked)		2.95 mm
1. Outer conductor:	Copper: Silver Plated Braid	96%	3.6 mm
Jacket:	RADOX (LSFH)	RAL 9005 - bk	4.95 mm +/- 0.1
Print:	HUBER+SUHNER GX 03272 50 Ohm (PA no.)		

Electrical Data

Impedance:	50	Ω +/-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:	2.5	kV _{rms} (at sea level)
Test voltage:	5	kV _{rms} (50 Hz/ 1min)
Insulation resistance:	> 1	$\times 10^6$ M Ω /m

General Data

Temperature range:	-40 °C... +105 °C
Weight:	4 kg / 100 m
Min. bending radius :	static 25 mm
	repeated (for max. 50 bendings) 50 mm

Suitable Connectors

Cable group U7 / U7
(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.



HUBER+SUHNER

HUBER+SUHNER AG
Division ISD
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*f^0.5 +b*f)] and **Power CW** [formula : (p*/ f^0.5)]

Coefficients:

a= 0.407

b= 0.1637

f_{max}= 2

p_{at 1GHz} = 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
0.10	0.145	0.0442	648.3
0.20	0.215	0.0655	458.4
0.30	0.272	0.0829	374.3
0.40	0.323	0.0984	324.1
0.50	0.370	0.1128	289.9
0.60	0.413	0.1259	264.7
0.70	0.455	0.1387	245.0
0.80	0.495	0.1509	229.2
0.90	0.533	0.1625	216.1
1.00	0.571	0.1740	205.0
1.10	0.607	0.1850	195.5
1.20	0.642	0.1957	187.1
1.30	0.677	0.2063	179.8
1.40	0.711	0.2167	173.3
1.50	0.744	0.2268	167.4
1.60	0.777	0.2368	162.1
1.70	0.809	0.2466	157.2
1.80	0.841	0.2563	152.8
1.90	0.872	0.2658	148.7
2.00	0.903	0.2752	145.0

Test (following tests have been passed successfully)

Flame propagation: IEC 60332-1

Halogen content: IEC 60754

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