



SUHNER® COAXIAL CABLE DATA SHEET

TYPE GX_04273

Single screened coaxial cable - flame retardant - free of halogen - precision type

Cable Design



	Material	Detail	Diameter
Centre conductor:	Copper	Strand-07	0.64 mm
Dielectric:	PEX (Polyethylene cross-linked)		3.75 mm
1. Outer conductor:	Copper: Silver Plated Braid	95%	4.45 mm
Jacket:	RADOX (LSFH)	RAL 9005 - bk	6.1 mm +/- 0.1
Print:	HUBER+SUHNER GX 04273 75 Ohm (PA no.)		

Electrical Data

Impedance:	75	Ω +/-1.5
Max. operating frequency:	1	GHz
Capacitance :	67.5	pF / m
Velocity of signal propagation:	66	%
Signal delay:	5.06	ns / m
Min. screening effectiveness:	> 40	dB (up to 1 GHz)
Max. operating voltage:	3	kV _{rms} (at sea level)
Test voltage:	6	kV _{rms} (50 Hz/ 1min)
Insulation resistance:	> 1	$\times 10^6$ M Ω /m

General Data

Temperature range:	-40 °C... +105 °C
Weight:	5.7 kg / 100 m
Min. bending radius :	static 35 mm
	repeated (for max. 50 bendings) 60 mm

Suitable Connectors

Cable group **U16 / U15**
(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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Matrix **Attenuation** [formula : (a*f^0.5 +b*f)] and **Power CW** [formula : (p*/ f^0.5)]

Coefficients:

a= 0.3724

b= 0.0626

f_{max}= 1

p_{at 1GHz} = 232

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
0.05	0.086	0.0262	1'037.5
0.10	0.124	0.0378	733.6
0.15	0.154	0.0469	599.0
0.20	0.179	0.0546	518.8
0.25	0.202	0.0616	464.0
0.30	0.223	0.0680	423.6
0.35	0.242	0.0738	392.2
0.40	0.261	0.0795	366.8
0.45	0.278	0.0847	345.8
0.50	0.295	0.0899	328.1
0.55	0.311	0.0948	312.8
0.60	0.326	0.0994	299.5
0.65	0.341	0.1039	287.8
0.70	0.355	0.1082	277.3
0.75	0.369	0.1125	267.9
0.80	0.383	0.1167	259.4
0.85	0.397	0.1210	251.6
0.90	0.410	0.1250	244.5
0.95	0.422	0.1286	238.0
1.00	0.435	0.1326	232.0

Test (following tests have been passed successfully)

Flame propagation: IEC 60332-1

Halogen content: IEC 60754

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