



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:	Cu	Strand-07 (0.21 mm)	0.64 mm
Dielectric:	PEX		3.75 mm
1. Outer conductor:	CuAg Braid	95% coverage	4.45 mm
Jacket:	RADOX	RAL 9005 - bk	6.1 mm +/-0.1
Print:	SUHNER SWITZERLAND GX 04273 75 Ohm		

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:	> 10 M Ω m

General Data

Temperature range:	-40 °C...+ 100 °C
Weight:	5.7 kg / 100 m
Min. bending radius :	static 35 mm
	repeated (for max. 50 bendings) 60 mm
	dynamic 120 mm

Suitable Connectors

Cable group *U16 / U15*
(for details refer to the "SUHNER coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner)

Notes

Order as **GX 04273** under article number **22510458**

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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:

$a = 0.3724$

$b = 0.0626$

$f_{\max} = 1$

$p_{\text{at } 1\text{GHz}} = 232$

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 332-1

Halogen content IEC 754

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