



SUHNER® COAXIAL CABLE DATA SHEET

TYPE GX 04263-01

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

Cable Design

	Material	Detail	Diameter
Centre conductor:	StCu	Wire (0.58 mm)	0.58 mm
Dielectric:	PEX		3.64 mm
1. Outer conductor:	Cu Braid	93% coverage	4.4 mm
2. Outer conductor:	Al-PETP wrapped Foil	100% coverage	4.6 mm
Jacket:	LSFH	RAL 9005 - bk	6.1 mm +/-0.1
Print:	SUHNER SWITZERLAND GX 04263-01 75 Ohm		

Electrical Data

Impedance:	75 Ω +/-1.5
Max. operating frequency:	1 GHz
Capacitance :	67.6 pF / m
Velocity of signal propagation:	66 %
Signal delay:	5.07 ns / m
Min. screening effectiveness:	> 39 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...+ 85 °C
Weight:	5.4 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 04263-01** under article number **22511646**

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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:

$a = 0.34$

$b = 0.0675$

$f_{\max} = 1$

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

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	0.079	0.0241	1'037.5
0.10	0.114	0.0347	733.6
0.15	0.142	0.0433	599.0
0.20	0.166	0.0506	518.8
0.25	0.187	0.0570	464.0
0.30	0.206	0.0628	423.6
0.35	0.225	0.0686	392.2
0.40	0.242	0.0738	366.8
0.45	0.258	0.0786	345.8
0.50	0.274	0.0835	328.1
0.55	0.289	0.0881	312.8
0.60	0.304	0.0927	299.5
0.65	0.318	0.0969	287.8
0.70	0.332	0.1012	277.3
0.75	0.345	0.1052	267.9
0.80	0.358	0.1091	259.4
0.85	0.371	0.1131	251.6
0.90	0.383	0.1167	244.5
0.95	0.396	0.1207	238.0
1.00	0.408	0.1244	232.0

Test (following tests have been passed successfully)

Flame propagation: IEC 332-3 (C)

Halogen content IEC 754

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