



SUHNER® COAXIAL CABLE DATA SHEET

TYPE GX 03272 D-06

Double screened coaxial cable - flame retardant - free of halogen

Cable Design



	Material	Detail	Diameter
Centre conductor:	CuAg	Wire (0.88 mm)	0.88 mm
Dielectric:	PEX		2.95 mm
1. Outer conductor:	CuAg Braid	96% coverage	3.6 mm
2. Outer conductor:	CuAg Braid	94% coverage	4.2 mm
Jacket:	RADOX	RAL 9005 - bk	5.4 mm +/-0.1
Print:	SUHNER SWITZERLAND GX 03272 D-06 50 Ohm		

Electrical Data

Impedance:	50 Ω +/-2
Max. operating frequency:	5 GHz
Capacitance :	100.7 pF / m
Velocity of signal propagation:	66 %
Signal delay:	5.03 ns / m
Min. screening effectiveness:	> 82 dB (up to 1 GHz)
Max. operating voltage:	2.5 kV _{rms} (at sea level)
Test voltage:	5 kV _{rms} (50 Hz/ 1min)
Insulation resistance:	> 10 M Ω m

General Data

Temperature range:	-25 °C...+ 100 °C
Weight:	5.5 kg / 100 m
Min. bending radius :	static 30 mm
	repeated (for max. 50 bendings) 55 mm

Suitable Connectors

Cable group *U9 / U10*
(for details refer to the "SUHNER coaxial connector catalogue" or contact you nearest HUBER+SUHNER partner)

Notes

Order as **GX 03272 D-06** under article number **22511592**

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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:

$a = 0.3952$

$b = 0.0779$

$f_{\max} = 5$

$p_{\text{at } 1\text{GHz}} = 205$

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
0.25	0.217	0.0661	410.0
0.50	0.318	0.0969	289.9
0.75	0.401	0.1222	236.7
1.00	0.473	0.1442	205.0
1.25	0.539	0.1643	183.4
1.50	0.601	0.1832	167.4
1.75	0.659	0.2009	155.0
2.00	0.715	0.2179	145.0
2.25	0.768	0.2341	136.7
2.50	0.820	0.2499	129.7
2.75	0.870	0.2652	123.6
3.00	0.918	0.2798	118.4
3.25	0.966	0.2944	113.7
3.50	1.012	0.3084	109.6
3.75	1.057	0.3222	105.9
4.00	1.102	0.3359	102.5
4.25	1.146	0.3493	99.4
4.50	1.189	0.3624	96.6
4.75	1.231	0.3752	94.1
5.00	1.273	0.3880	91.7

Test (following tests have been passed successfully)

Flame propagation: IEC 332-1

Halogen content IEC 754

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