

HUBER+SUHNER® DATA SHEET

Coaxial Cable: G_03272

Description

Single screened coaxial cable - free of halogen



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper	Strand-07	0.95 mm
Dielectric	PE (Polyethylene)		2.95 mm
Outer conductor	Copper	Braid, 95 %	3.6 mm
Jacket	PE (Polyethylene)	RAL 9005 - bk	5 mm +/- 0.1
Print	HUBER+SUHNER G 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
Insulation resistance	$\geq 1 \times 10^8$ M Ω m
Min. screening effectiveness	>39 dB (up to 2 GHz)
Max. operating voltage	2.5 kV _{rms} (at sea level)
Test voltage	5 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	3.5 kg/100 m
Min. bending radius	static 30 mm
	repeated (for max. 50 bendings) 50 mm

Environmental Data

Temperature range	-40 °C... + 85 °C
Installation temperature	-20 °C... + 60 °C
Halogen free	IEC 60754

Ordering Information

Order as G_03272

Additional Information

Remarks

(For details refer to the HUBER+SUHNER RF CABLES GENERAL CATALOGUE or contact your nearest HUBER+SUHNER partner)

Suitable Connectors

Cable group U7 / U7

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Rev.: B

Matrix **Attenuation** [formula: $(a \cdot f^{0.5} + b \cdot f)$] **and Power CW** [formula: $(p \cdot f^{0.5})$]

Coefficients:

a=	0.4027	b=	0.08	f _{max.} =	2	p _{at} 1GHz =	110
	Frequency		Nom. attenuation		Nom. attenuation		Max. CW power
	(GHz)		(dB / m)		(dB / ft)		(watt)
			sea level 25° C ambient temperature		sea level 25° C ambient temperature		sea level 40° C ambient temperature
	0.1		0.14		0.043		348
	0.2		0.20		0.061		246
	0.3		0.24		0.073		201
	0.4		0.29		0.088		174
	0.5		0.32		0.098		156
	0.6		0.36		0.110		142
	0.7		0.39		0.119		131
	0.8		0.42		0.128		123
	0.9		0.45		0.137		116
	1.0		0.48		0.146		110
	1.1		0.51		0.155		105
	1.2		0.54		0.165		100
	1.3		0.56		0.171		96
	1.4		0.59		0.180		93
	1.5		0.61		0.186		90
	1.6		0.64		0.195		87
	1.7		0.66		0.201		84
	1.8		0.68		0.207		82
	1.9		0.71		0.216		80
	2.0		0.73		0.222		78

HUBER+SUHNER is certified according to ISO 9001 and ISO 14001

WAIVER!

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