

HUBER+SUHNER® DATA SHEET

Coaxial Cable: SA_07272

Rev.: D



Description

Single screened coaxial cable - free of halogen



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper	Wire	2.68 mm
Dielectric	SPE (Foamed Polyethylene)		7.25 mm
Outer conductor	PETP	longitudinal Foil, 100 %	7.8 mm
Jacket	PE	RAL 9005 - bk	10 mm +/- 0.15
Print	HUBER+SUHNER SA 07272 50 Ohm (PA no.)		

Electrical Data

Impedance	50	Ω +/- 2
Max. operating frequency	10	GHz
Capacitance	81.6	pF/m
Velocity of signal propagation	82	%
Signal delay	4.08	ns/m
Insulation resistance	$\geq 1 \times 10^8$	M Ω m
Max. operating voltage	1.05	kV _{rms} (at sea level)
Test voltage	2	kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	11.2	kg/100 m
Min. bending radius	static	50 mm
	repeated (for max. 50 bendings)	100 mm

Environmental Data

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

Ordering Information

Order as	SA_07272
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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	T3
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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=	0.124	b=	0.0253	f _{max} =	10	p _{at} 1GHz =	500
	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
	0.5		0.10		0.030		707
	1.0		0.15		0.046		500
	1.5		0.19		0.058		408
	2.0		0.23		0.070		354
	2.5		0.26		0.079		316
	3.0		0.29		0.088		289
	3.5		0.32		0.098		267
	4.0		0.35		0.107		250
	4.5		0.38		0.116		236
	5.0		0.40		0.122		224
	5.5		0.43		0.131		213
	6.0		0.46		0.140		204
	6.5		0.48		0.146		196
	7.0		0.51		0.155		189
	7.5		0.53		0.162		183
	8.0		0.55		0.168		177
	8.5		0.58		0.177		171
	9.0		0.60		0.183		167
	9.5		0.62		0.189		162
	10.0		0.65		0.198		158

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

WAIVER!

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