

HUBER+SUHNER® DATA SHEET

Coaxial Cable: S_07272_B-05



Description

PE Foam - 50 Ohm - high screened

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper	Wire	2.68 mm
Dielectric	SPE (Foamed Polyethylene)		7.29 mm
Outer conductor	Aluminum / PES	longitudinal Foil, 100 %	7.45 mm
Outer conductor	Copper, Tin plated	Braid, 88 %	8.1 mm
Jacket	PE	RAL 9005 - bk	10.2 mm +/- 0.15
Print	HUBER+SUHNER S 07272 B-05 50 Ohm (PA no.)		

Electrical Data

Impedance	50	Ω +/- 2
Max. operating frequency	5	GHz
Capacitance	82	pF/m
Velocity of signal propagation	82	%
Signal delay	4.08	ns/m
Insulation resistance	$\geq 1 \times 10^8$	M Ω m
Min. screening effectiveness	>95	dB (up to 6 GHz)
Max. operating voltage	1.05	kV _{rms} (at sea level)
Test voltage	2.1	kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	13.25	kg/100 m
Min. bending radius	static	110 mm
	repeated (for max. 50 bendings)	220 mm

Environmental Data

Temperature range	-20 °C... + 60 °C	-40 °C... + 85 °C
Installation temperature	-20 °C... + 60 °C	
Halogen free	IEC 60754	
2002/95/EC (RoHS)	compliant	

Ordering Information

Order as S_07272_B-05

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	crimped (U30)
	clamped (U31)
	soldered —

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Rev.: H

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

Coefficients:

a=	0.1321	b=	0.0189	f _{max} =	5	p _{at} 1GHz =	520
	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
	0.3		0.08		0.024		949
	0.5		0.10		0.030		735
	0.8		0.13		0.040		581
	1.0		0.15		0.046		520
	1.3		0.18		0.055		456
	1.5		0.19		0.058		425
	1.8		0.21		0.064		388
	2.0		0.22		0.067		368
	2.3		0.24		0.073		343
	2.5		0.26		0.079		329
	2.8		0.27		0.082		311
	3.0		0.29		0.088		300
	3.3		0.30		0.091		286
	3.5		0.31		0.094		278
	3.8		0.33		0.101		267
	4.0		0.34		0.104		260
	4.3		0.36		0.110		251
	4.5		0.37		0.113		245
	4.8		0.38		0.116		237
	5.0		0.39		0.119		233

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

WAIVER!

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