

HUBER+SUHNER® DATA SHEET

Coaxial Cable: S_04172_D



Description

PE Foam - 50 Ohm - double screen

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	1.4 mm
Dielectric	SPE (Foamed Polyethylene)		3.78 mm
Outer conductor	Copper, Silver plated	Braid, 96 %	4.2 mm
Outer conductor	Copper, Silver plated	Braid, 94 %	4.7 mm
Jacket	PE	RAL 9005 - bk	5.7 mm +/- 0.15
Print	HUBER+SUHNER S 04172 D 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	>82	dB (up to 1 GHz)
Max. operating voltage	0.55	kV _{rms} (at sea level)
Test voltage	1.1	kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	5.5	kg/100 m
Min. bending radius	static	30 mm
	repeated (for max. 50 bendings)	57 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_04172_D

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 (S16)
	clamped —
	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=	0.2938	b=	0.0401	f _{max} =	5	p _{at} 1GHz =	190
	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		0.17		0.052		347
	0.5		0.23		0.070		269
	0.8		0.29		0.088		212
	1.0		0.33		0.101		190
	1.3		0.39		0.119		167
	1.5		0.42		0.128		155
	1.8		0.47		0.143		142
	2.0		0.50		0.152		134
	2.3		0.54		0.165		125
	2.5		0.56		0.171		120
	2.8		0.60		0.183		114
	3.0		0.63		0.192		110
	3.3		0.67		0.204		105
	3.5		0.69		0.210		102
	3.8		0.73		0.222		97
	4.0		0.75		0.229		95
	4.3		0.78		0.238		92
	4.5		0.80		0.244		90
	4.8		0.84		0.256		87
	5.0		0.86		0.262		85

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

WAIVER!

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