

HUBER+SUHNER® DATA SHEET

Coaxial Cable: S_02162_B



Description

PE Foam - 50 Ohm - high screened

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper	Strand-07	0.8 mm
Dielectric	SPE (Foamed Polyethylene)		2.1 mm
Outer conductor	Aluminum / PES	longitudinal Foil, 100 %	2.15 mm
Outer conductor	Copper, Tin plated	Braid, 75 %	2.65 mm
Jacket	LSFH (modified polyethylene)	RAL 9005 - bk	3.15 mm +/- 0.05
Print	HUBER+SUHNER S 02162 B 50 Ohm (PA no.)		

Electrical Data

Impedance	50	Ω +/- 2
Max. operating frequency	6	GHz
Capacitance	82	pF/m
Velocity of signal propagation	81	%
Signal delay	4.08	ns/m
Insulation resistance	$\geq 1 \times 10^8$	M Ω m
Min. screening effectiveness	>80	dB (up to 6 GHz)
Max. operating voltage	0.25	kV _{rms} (at sea level)
Test voltage	0.5	kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	2.5	kg/100 m
Min. bending radius	static	16 mm
	repeated (for max. 50 bendings)	30 mm
	dynamic	50 mm

Environmental Data

Temperature range	-20 °C... + 60 °C	-40 °C... + 85 °C
Installation temperature	-20 °C... + 60 °C	
Flammability	IEC 60332-1	
Halogen free	IEC 60754	
Abraison test	MIL-T-81490 - §4.7.19 - prod. II - modified	
Load test	IEC 794-1-E3	
Tensile stress test	VW TL 821 33	
Flex life test	MIL-T-81490 - §4.7.15 - prod. II - modified	
Thermal stress test	IEC 61196-1 § 10.9	
2002/95/EC (RoHS)	compliant	

Ordering Information

Order as S_02162_B

Additional Information

Remarks

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

Cable group S9 2 mm / 50 Ohm

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Rev.: Q

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

Coefficients:

a=	0.435	b=	0.1019	f _{max.} =	6	p _{at} 1GHz =	82
	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		0.27		0.082		150
	0.6		0.40		0.122		106
	0.9		0.50		0.152		86
	1.2		0.60		0.183		75
	1.5		0.69		0.210		67
	1.8		0.77		0.235		61
	2.1		0.84		0.256		57
	2.4		0.92		0.280		53
	2.7		0.99		0.302		50
	3.0		1.06		0.323		47
	3.3		1.13		0.344		45
	3.6		1.19		0.363		43
	3.9		1.26		0.384		42
	4.2		1.32		0.402		40
	4.5		1.38		0.421		39
	4.8		1.44		0.439		37
	5.1		1.50		0.457		36
	5.4		1.56		0.475		35
	5.7		1.62		0.494		34
	6.0		1.68		0.512		33

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

WAIVER!

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