

HUBER+SUHNER® DATA SHEET

Coaxial Cable: S_02112_D



Description

PE Foam - 50 Ohm - double screen

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Tin plated	Strand-19	0.9 mm
Dielectric	SPE (Foamed Polyethylene)		2.39 mm
Outer conductor	Copper	Braid, 96 %	2.9 mm
Outer conductor	Copper	Braid, 84 %	3.5 mm
Jacket	PUR	RAL 9005 - bk	4.5 mm +/- 0.15
Print	HUBER+SUHNER S 02112 D 50 Ohm (PA no.)		

Electrical Data

Impedance	50	Ω +/- 2
Max. operating frequency	6	GHz
Capacitance	83	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	>81	dB (up to 6 GHz)
Max. operating voltage	0.35	kV _{rms} (at sea level)
Test voltage	0.7	kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	3.7	kg/100 m
Min. bending radius	static	22 mm
	repeated (for max. 50 bendings)	45 mm

Environmental Data

Temperature range	-20 °C... + 60 °C	-40 °C... + 85 °C
Installation temperature	-20 °C... + 60 °C	
Halogen free	IEC 60754	
Flex life test	MIL-T-81490 - §4.7.15 - prod. II - modified	
2002/95/EC (RoHS)	compliant	

Ordering Information

Order as S_02112_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 (S8)
	clamped —
	soldered —

HUBER+SUHNER® DATA SHEET

Coaxial Cable: S_02112_D



Rev.: L

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

Coefficients:

a=	0.5272	b=	0.1353	f _{max} =	6	p _{at} 1GHz =	80
	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		0.33		0.101		146
	0.6		0.49		0.149		103
	0.9		0.62		0.189		84
	1.2		0.74		0.226		73
	1.5		0.85		0.259		65
	1.8		0.95		0.290		60
	2.1		1.05		0.320		55
	2.4		1.14		0.347		52
	2.7		1.23		0.375		49
	3.0		1.32		0.402		46
	3.3		1.40		0.427		44
	3.6		1.49		0.454		42
	3.9		1.57		0.479		41
	4.2		1.65		0.503		39
	4.5		1.73		0.527		38
	4.8		1.80		0.549		37
	5.1		1.88		0.573		35
	5.4		1.96		0.597		34
	5.7		2.03		0.619		34
	6.0		2.10		0.640		33

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

WAIVER!

It is exclusively in written agreements that we provide our customers with warrants and representations as to the technical specifications and/or the fitness for any particular purpose. The facts and figures contained herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only.



HUBER+SUHNER AG
RF Industrial
9100 Herisau, Switzerland
 Phone +41 (0)71 353 41 11
 Fax +41 (0)71 353 45 90
 www.hubersuhner.com

HUBER+SUHNER – Excellence in Connectivity Solutions