

HUBER+SUHNER® DATA SHEET

Coaxial Cable: S_01112_D



Description

Double screened coaxial cable - free of halogen

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper	Strand-07	0.54 mm
Dielectric	SPE (Foamed Polyethylene)		1.32 mm
Outer conductor	Copper, Tin plated	Braid, 92 %	1.7 mm
Outer conductor	Copper, Tin plated	Braid, 95 %	2.2 mm
Jacket	PE	RAL 9005 - bk	2.65 mm +/- 0.1
Print	(no print)		

Electrical Data

Impedance	50 Ω +/- 2
Max. operating frequency	6 GHz
Capacitance	82 pF/m
Velocity of signal propagation	82 %
Signal delay	4.15 ns/m
Insulation resistance	$\geq 1 \times 10^8$ M Ω m
Min. screening effectiveness	>77 dB (up to 6 GHz)
Max. operating voltage	0.2 kV _{rms} (at sea level)
Test voltage	0.4 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	1.3 kg/100 m
Min. bending radius	static 12 mm
	dynamic 40 mm

Environmental Data

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

Ordering Information

Order as	S_01112_D
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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	crimped —
	clamped —
	soldered —

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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=	0.7625	b=	0.0428	f _{max} =	6	p _{at} 1GHz =	42
	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		0.43		0.131		77
	0.6		0.62		0.189		54
	0.9		0.76		0.232		44
	1.2		0.89		0.271		38
	1.5		1.00		0.305		34
	1.8		1.10		0.335		31
	2.1		1.19		0.363		29
	2.4		1.28		0.390		27
	2.7		1.37		0.418		26
	3.0		1.45		0.442		24
	3.3		1.53		0.466		23
	3.6		1.60		0.488		22
	3.9		1.67		0.509		21
	4.2		1.74		0.530		20
	4.5		1.81		0.552		20
	4.8		1.88		0.573		19
	5.1		1.94		0.591		19
	5.4		2.00		0.610		18
	5.7		2.06		0.628		18
	6.0		2.12		0.646		17

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

WAIVER!
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