

# HUBER+SUHNER® DATA SHEET

## Coaxial Cable: K\_02252\_D



### Description

PTFE - 50 Ohm - double screen

### Technical Data

#### Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper+Silver plated	Strand-07	0.54 mm
Dielectric	PTFE		1.55 mm
Outer conductor	Copper, Silver plated	Braid, 96 %	2 mm
Outer conductor	Copper, Silver plated	Braid, 91 %	2.5 mm
Jacket	FEP	RAL 8015 - br	3 mm +/- 0.1
Print	HUBER+SUHNER K 02252 D 50 Ohm (PA no.)		

#### Electrical Data

Impedance	50	$\Omega$ +/- 2
Max. operating frequency	6	GHz
Capacitance	97	pF/m
Velocity of signal propagation	69	%
Signal delay	4.86	ns/m
Insulation resistance	$\geq 1 \times 10^8$	M $\Omega$ m
Min. screening effectiveness	>80	dB (up to 6 GHz)
Max. operating voltage	0.85	kV <sub>rms</sub> (at sea level)
Test voltage	1.7	kV <sub>rms</sub> (50 Hz/1 min)

#### Mechanical Data

Weight	2.4	kg/100 m
Min. bending radius	static	18 mm
	repeated (for max. 50 bendings)	30 mm
	dynamic	45 mm

#### Environmental Data

Temperature range	-20 °C... + 60 °C	-65 °C... + 165 °C
Installation temperature	-20 °C... + 60 °C	
Flammability	IEC 60332-3	
2002/95/EC (RoHS)	compliant	

#### Ordering Information

Order as K\_02252\_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 (U4)
	clamped (U4)
	soldered —

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Rev.: G

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

Coefficients:

a=	0.7865	b=	0.121	f <sub>max.</sub> =	6	p <sub>at</sub> 1GHz =	149
	<b>Frequency</b>		<b>Nom. attenuation</b>		<b>Nom. attenuation</b>		<b>Max. CW power</b>
	<b>(GHz)</b>		<b>(dB / m)</b>		<b>(dB / ft)</b>		<b>(watt)</b>
			sea level 25° C ambient temperature		sea level 25° C ambient temperature		sea level 40° C ambient temperature
	0.3		0.47		0.143		272
	0.6		0.68		0.207		192
	0.9		0.86		0.262		157
	1.2		1.01		0.308		136
	1.5		1.14		0.347		122
	1.8		1.27		0.387		111
	2.1		1.39		0.424		103
	2.4		1.51		0.460		96
	2.7		1.62		0.494		91
	3.0		1.73		0.527		86
	3.3		1.83		0.558		82
	3.6		1.93		0.588		79
	3.9		2.03		0.619		75
	4.2		2.12		0.646		73
	4.5		2.21		0.674		70
	4.8		2.30		0.701		68
	5.1		2.39		0.728		66
	5.4		2.48		0.756		64
	5.7		2.57		0.783		62
	6.0		2.65		0.808		61

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

**WAIVER!**

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