

# HUBER+SUHNER® DATA SHEET

## Coaxial Cable: K\_02232\_D-01

Rev.: I



### 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, 95 %	2 mm
Outer conductor	Copper, Silver plated	Braid, 93 %	2.5 mm
Jacket	PVC (UL)	RAL 9005 - bk	3.2 mm +/- 0.1
Print	HUBER+SUHNER K 02232 D-01 50 Ohm (PA no.)		

#### Electrical Data

Impedance	50 $\Omega$ +/- 2
Max. operating frequency	5 GHz
Capacitance	97 pF/m
Velocity of signal propagation	69 %
Signal delay	4.86 ns/m
Insulation resistance	$\geq 1 \times 10^8 M\Omega m$
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	2.3 kg/100 m
Min. bending radius	static 10 mm
	repeated (for max. 50 bendings) 30 mm
	dynamic 48 mm

#### Environmental Data

Temperature range	-35 °C... + 105 °C
Installation temperature	-20 °C... + 60 °C
Flammability	IEC 60332-1, UL 1581 § 1080 (VW-1)
2002/95/EC (RoHS)	compliant

#### Ordering Information

Order as	K_02232_D-01
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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 (U4)
	clamped (U4)
	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=	0.7865	b=	0.121	f <sub>max</sub> =	5	p <sub>at</sub> 1GHz =	154
	<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		281
	0.5		0.62		0.189		218
	0.8		0.80		0.244		172
	1.0		0.91		0.277		154
	1.3		1.05		0.320		135
	1.5		1.14		0.347		126
	1.8		1.27		0.387		115
	2.0		1.35		0.411		109
	2.3		1.47		0.448		102
	2.5		1.55		0.472		97
	2.8		1.65		0.503		92
	3.0		1.73		0.527		89
	3.3		1.83		0.558		85
	3.5		1.89		0.576		82
	3.8		1.99		0.607		79
	4.0		2.06		0.628		77
	4.3		2.15		0.655		74
	4.5		2.21		0.674		73
	4.8		2.30		0.701		70
	5.0		2.36		0.719		69

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.



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