

# HUBER+SUHNER® DATA SHEET

## Coaxial Cable: K\_03252\_D



### Description

FEP - 50 Ohm - double screen

### Technical Data

#### Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	0.95 mm
Dielectric	FEP		2.95 mm
Outer conductor	Copper, Silver plated	Braid, 95 %	3.6 mm
Outer conductor	Copper, Silver plated	Braid, 93 %	4.25 mm
Jacket	FEP	RAL 9005 - bk	4.95 mm +/- 0.1
Print	HUBER+SUHNER K 03252 D 50 Ohm (PA no.)		

#### Electrical Data

Impedance	50	$\Omega$ +/- 2
Max. operating frequency	6	GHz
Capacitance	94	pF/m
Velocity of signal propagation	69	%
Signal delay	4.75	ns/m
Insulation resistance	$\geq 1 \times 10^8$	M $\Omega$ m
Min. screening effectiveness	>82	dB (up to 6 GHz)
Max. operating voltage	2.5	kV <sub>rms</sub> (at sea level)
Test voltage	5	kV <sub>rms</sub> (50 Hz/1 min)

#### Mechanical Data

Weight	6.2	kg/100 m
Min. bending radius	static	30 mm
	repeated (for max. 50 bendings)	50 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\_03252\_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 (U9)
	clamped (U10)
	soldered —

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Rev.: K

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

Coefficients:

a=	0.385	b=	0.0973	f <sub>max</sub> =	6	p <sub>at</sub> 1GHz =	305
	<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		0.24		0.073		557
	0.6		0.36		0.110		394
	0.9		0.45		0.137		321
	1.2		0.54		0.165		278
	1.5		0.62		0.189		249
	1.8		0.69		0.210		227
	2.1		0.76		0.232		210
	2.4		0.83		0.253		197
	2.7		0.90		0.274		186
	3.0		0.96		0.293		176
	3.3		1.02		0.311		168
	3.6		1.08		0.329		161
	3.9		1.14		0.347		154
	4.2		1.20		0.366		149
	4.5		1.25		0.381		144
	4.8		1.31		0.399		139
	5.1		1.37		0.418		135
	5.4		1.42		0.433		131
	5.7		1.47		0.448		128
	6.0		1.53		0.466		125

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

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