

# HUBER+SUHNER® DATA SHEET

## Coaxial Cable: K\_02253\_D-02



### Description

PTFE - 75 Ohm - double screen

### Technical Data

#### Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper+Silver plated	Strand-07	0.31 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	FEP	RAL 8015 - br	3 mm +/- 0.1
Print	HUBER+SUHNER K 02253 D-02 75 Ohm (PA no.)		

#### Electrical Data

Impedance	75 $\Omega$ +/- 3
Max. operating frequency	2 GHz
Capacitance	63 pF/m
Velocity of signal propagation	69 %
Signal delay	4.83 ns/m
Insulation resistance	$\geq 1 \times 10^8$ M $\Omega$ m
Min. screening effectiveness	>81 dB (up to 2 GHz)
Max. operating voltage	0.75 kV <sub>rms</sub> (at sea level)
Test voltage	1.5 kV <sub>rms</sub> (50 Hz/1 min)

#### Mechanical Data

Weight	2.3 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\_02253\_D-02

#### 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 (R8)
	clamped (on request)
	soldered —

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Rev.: H

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

Coefficients:

a=	0.9109	b=	0.0308	f <sub>max</sub> =	2	p <sub>at</sub> 1GHz =	120
	<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
	0.1		0.29		0.088		379
	0.2		0.41		0.125		268
	0.3		0.51		0.155		219
	0.4		0.59		0.180		190
	0.5		0.66		0.201		170
	0.6		0.72		0.219		155
	0.7		0.78		0.238		143
	0.8		0.84		0.256		134
	0.9		0.89		0.271		126
	1.0		0.94		0.286		120
	1.1		0.99		0.302		114
	1.2		1.03		0.314		110
	1.3		1.08		0.329		105
	1.4		1.12		0.341		101
	1.5		1.16		0.354		98
	1.6		1.20		0.366		95
	1.7		1.24		0.378		92
	1.8		1.28		0.390		89
	1.9		1.31		0.399		87
	2.0		1.35		0.411		85

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

**WAIVER!**

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