

# HUBER+SUHNER® DATA SHEET

## Coaxial Cable: S\_04262D-01



### Description

Double screened coaxial cable - flame retardant - free of halogen

### Technical Data

#### Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Strand-19	1.42 mm
Dielectric	SPE (Foamed Polyethylene)		3.7 mm
Outer conductor	Copper	Braid, 92 %	4.35 mm
Outer conductor	Copper	Braid, 77 %	5.25 mm
Jacket	LSFH (modified polyethylene)	RAL 9005 - bk	6.5 mm +/- 0.15
Print	SUHNER SWITZERLAND S 04262 D-01 50 Ohm		

#### Electrical Data

Impedance	50 $\Omega$ +/- 2
Max. operating frequency	6 GHz
Capacitance	82 pF/m
Velocity of signal propagation	82 %
Signal delay	4.08 ns/m
Insulation resistance	$\geq 1 \times 10^8$ M $\Omega$ m
Max. operating voltage	0.5 kV <sub>rms</sub> (at sea level)
Test voltage	1 kV <sub>rms</sub> (50 Hz/1 min)

#### Mechanical Data

Weight	6.8 kg/100 m
Min. bending radius	static 32 mm
	dynamic 97 mm

#### Environmental Data

Temperature range	-40 °C... + 85 °C
Installation temperature	-20 °C... + 60 °C
Flammability	IEC 60332-1
Halogen free	IEC 60754
2002/95/EC (RoHS)	compliant

#### Ordering Information

Order as	S_04262D-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)

#### Cable group

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Rev.: D

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

Coefficients:

a=	0.282	b=	0.045	f <sub>max.</sub> =	6	p <sub>at</sub> 1GHz =	127
	<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		0.17		0.052		232
	0.6		0.25		0.076		164
	0.9		0.31		0.094		134
	1.2		0.36		0.110		116
	1.5		0.41		0.125		104
	1.8		0.46		0.140		95
	2.1		0.50		0.152		88
	2.4		0.54		0.165		82
	2.7		0.58		0.177		77
	3.0		0.62		0.189		73
	3.3		0.66		0.201		70
	3.6		0.70		0.213		67
	3.9		0.73		0.222		64
	4.2		0.77		0.235		62
	4.5		0.80		0.244		60
	4.8		0.83		0.253		58
	5.1		0.87		0.265		56
	5.4		0.90		0.274		55
	5.7		0.93		0.283		53
	6.0		0.96		0.293		52

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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