

# HUBER+SUHNER® DATA SHEET

## Coaxial Cable: RG\_400\_U

### Description

Double screened coaxial cable



### Technical Data

#### Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Strand-19	1 mm
Dielectric	PTFE (Polytetrafluorethyl.)		2.98 mm
Outer conductor	Copper, Silver plated	Braid, 97 %	3.6 mm
Outer conductor	Copper, Silver plated	Braid, 94 %	4.2 mm
Jacket	FEP (Fluorethylene Prop.)	RAL 8015 - br	4.95 mm +/- 0.1
Print	HUBER+SUHNER RG 400 U 50 Ohm (PA no.)		

#### Electrical Data

Impedance	50	$\Omega$ +/- 2
Max. operating frequency	6	GHz
Capacitance	95	pF/m
Velocity of signal propagation	70	%
Signal delay	4.75	ns/m
Insulation resistance	$\geq 1 \times 10^8$	M $\Omega$ m
Min. screening effectiveness	>81	dB (up to 6 GHz)
Max. operating voltage	1.7	kV <sub>rms</sub> (at sea level)
Test voltage	3.4	kV <sub>rms</sub> (50 Hz/1 min)

#### Mechanical Data

Weight	6.4	kg/100 m
Min. bending radius	static	30 mm
	repeated (for max. 50 bendings)	50 mm

#### Environmental Data

Temperature range	-65 °C... + 165 °C
Installation temperature	-20 °C... + 60 °C
Flammability	IEC 60332-3

#### Ordering Information

Order as RG\_400\_U

#### 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 U11 / U10

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Rev.: C

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

Coefficients:

a=	0.4195	b=	0.07755	f <sub>max.</sub> =	6	p <sub>at</sub> 1GHz =	365
	<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		0.25		0.076		666
	0.6		0.37		0.113		471
	0.9		0.47		0.143		385
	1.2		0.55		0.168		333
	1.5		0.63		0.192		298
	1.8		0.70		0.213		272
	2.1		0.77		0.235		252
	2.4		0.84		0.256		236
	2.7		0.90		0.274		222
	3.0		0.96		0.293		211
	3.3		1.02		0.311		201
	3.6		1.08		0.329		192
	3.9		1.13		0.344		185
	4.2		1.19		0.363		178
	4.5		1.24		0.378		172
	4.8		1.29		0.393		167
	5.1		1.34		0.408		162
	5.4		1.39		0.424		157
	5.7		1.44		0.439		153
	6.0		1.49		0.454		149

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

**WAIVER!**

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