

HUBER+SUHNER® DATA SHEET

Coaxial Cable: RG_11_A/U



Description

Single screened coaxial cable

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Tin plated	Strand-07	1.2 mm
Dielectric	PE		7.25 mm
Outer conductor	Copper	Braid, 96 %	8.1 mm
Jacket	PVC II (non migration)	RAL 9005 - bk	10.3 mm +/- 0.1
Print	HUBER+SUHNER RG 11 A/U 75 Ohm (PA no.)		

Electrical Data

Impedance	75 Ω +/- 3
Max. operating frequency	1 GHz
Capacitance	67 pF/m
Velocity of signal propagation	66 %
Signal delay	5.03 ns/m
Insulation resistance	$\geq 1 \times 10^8 \text{ M}\Omega\text{m}$
Max. operating voltage	5 kV _{rms} (at sea level)
Test voltage	10 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	13.3 kg/100 m
Min. bending radius	static 55 mm
	dynamic 154 mm

Environmental Data

Temperature range	-25 °C... + 85 °C
Installation temperature	-20 °C... + 60 °C
2002/95/EC (RoHS)	compliant

Ordering Information

Order as	RG_11_A/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	crimped (U34)
	clamped (U35)
	soldered —

HUBER+SUHNER® DATA SHEET

Coaxial Cable: RG_11_A/U

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

Coefficients:

a=	0.1881	b=	0.0344	f _{max} =	1	p _{at} 1GHz =	286
	Frequency		Nom. attenuation		Nom. attenuation		Max. CW power
	(GHz)		(dB / m)		(dB / ft)		(watt)
			sea level 25° C ambient temperature		sea level 25° C ambient temperature		sea level 40° C ambient temperature
	0.05		0.04		0.012		1279
	0.10		0.06		0.018		904
	0.15		0.08		0.024		738
	0.20		0.09		0.027		640
	0.25		0.10		0.030		572
	0.30		0.11		0.034		522
	0.35		0.12		0.037		483
	0.40		0.13		0.040		452
	0.45		0.14		0.043		426
	0.50		0.15		0.046		404
	0.55		0.16		0.049		386
	0.60		0.17		0.052		369
	0.65		0.17		0.052		355
	0.70		0.18		0.055		342
	0.75		0.19		0.058		330
	0.80		0.20		0.061		320
	0.85		0.20		0.061		310
	0.90		0.21		0.064		301
	0.95		0.22		0.067		293
	1.00		0.22		0.067		286

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.



HUBER+SUHNER AG
RF Industrial
9100 Herisau, Switzerland
 Phone +41 (0)71 353 41 11
 Fax +41 (0)71 353 45 90
 www.hubersuhner.com

HUBER+SUHNER – Excellence in Connectivity Solutions