

HUBER+SUHNER® DATA SHEET

Coaxial Cable: RG_188_A/U

Rev.: I



Description

PTFE - 50 Ohm - single screen

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper+Silver plated	Strand-07	0.54 mm
Dielectric	PTFE		1.55 mm
Outer conductor	Copper, Silver plated	Braid, 94 %	2 mm
Jacket	PFA	RAL 9010 - wh	2.6 mm +/- 0.1
Print	HUBER+SUHNER RG 188 A/U 50 Ohm (PA no.)		

Electrical Data

Impedance	50 Ω +/- 2
Max. operating frequency	3 GHz
Capacitance	97 pF/m
Velocity of signal propagation	69 %
Signal delay	4.86 ns/m
Insulation resistance	$\geq 1 \times 10^8 \text{ M}\Omega\text{m}$
Min. screening effectiveness	>39 dB (up to 1 GHz)
Max. operating voltage	1.45 kV _{rms} (at sea level)
Test voltage	2.9 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	1.7 kg/100 m
Min. bending radius	static 15 mm
	repeated (for max. 50 bendings) 26 mm
	dynamic 39 mm

Environmental Data

Temperature range	-65 °C... + 165 °C
Installation temperature	-20 °C... + 60 °C
Flammability	IEC 60332-3
2002/95/EC (RoHS)	compliant

Ordering Information

Order as	RG_188_A/U
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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)

Suitable Connectors

Cable group	crimped (U2)
	clamped (U2)
	soldered —

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

Coefficients:

a=	0.7501	b=	0.0884	f _{max} =	3	p _{at} 1GHz =	180
	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
	0.2		0.35		0.107		402
	0.3		0.44		0.134		329
	0.5		0.57		0.174		255
	0.6		0.63		0.192		232
	0.8		0.74		0.226		201
	0.9		0.79		0.241		190
	1.1		0.88		0.268		172
	1.2		0.93		0.283		164
	1.4		1.01		0.308		152
	1.5		1.05		0.320		147
	1.7		1.13		0.344		138
	1.8		1.17		0.357		134
	2.0		1.24		0.378		127
	2.1		1.27		0.387		124
	2.3		1.34		0.408		119
	2.4		1.37		0.418		116
	2.6		1.44		0.439		112
	2.7		1.47		0.448		110
	2.9		1.53		0.466		106
	3.0		1.56		0.475		104

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

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