

HUBER+SUHNER® DATA SHEET

Coaxial Cable: RG_187_A/U



Description

PTFE - 75 Ohm - single 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, 94 %	2 mm
Jacket	PFA	RAL 9010 - wh	2.65 mm +/- 0.1
Print	HUBER+SUHNER RG 187 A/U 75 Ohm (PA no.)		

Electrical Data

Impedance	75	Ω +/- 3
Max. operating frequency	1	GHz
Capacitance	63	pF/m
Velocity of signal propagation	69	%
Signal delay	4.83	ns/m
Insulation resistance	$\geq 1 \times 10^8$	M Ω m
Min. screening effectiveness	>41	dB (up to 1 GHz)
Max. operating voltage	1	kV _{rms} (at sea level)
Test voltage	2	kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	1.6	kg/100 m
Min. bending radius	static	15 mm
	dynamic	40 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_187_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 (U5)
	clamped (U5)
	soldered —

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Rev.: F

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

Coefficients:

a=	0.73	b=	0.1014	f _{max.} =	1	p _{at} 1GHz =	110
	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		0.17		0.052		492
	0.10		0.24		0.073		348
	0.15		0.30		0.091		284
	0.20		0.35		0.107		246
	0.25		0.39		0.119		220
	0.30		0.43		0.131		201
	0.35		0.47		0.143		186
	0.40		0.50		0.152		174
	0.45		0.54		0.165		164
	0.50		0.57		0.174		156
	0.55		0.60		0.183		148
	0.60		0.63		0.192		142
	0.65		0.65		0.198		136
	0.70		0.68		0.207		131
	0.75		0.71		0.216		127
	0.80		0.73		0.222		123
	0.85		0.76		0.232		119
	0.90		0.78		0.238		116
	0.95		0.81		0.247		113
	1.00		0.83		0.253		110

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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