

HUBER+SUHNER® DATA SHEET

Coaxial Cable: RG_179_B/U

Rev.: G



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	FEP	RAL 8015 - br	2.54 mm +/- 0.13
Print	HUBER+SUHNER RG 179 B/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	$\geq 1 \times 10^8 \text{ M}\Omega\text{m}$
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	1.48 kg/100 m
Min. bending radius	static 15 mm
	repeated (for max. 50 bendings) 25 mm
	dynamic 38 mm

Environmental Data

Temperature range	-65 °C... + 165 °C
Installation temperature	-20 °C... + 60 °C
Flammability	IEC 60332-1
2002/95/EC (RoHS)	compliant

Ordering Information

Order as	RG_179_B/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 (U5)
	clamped (U5)
	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=	0.73	b=	0.1014	f _{max} =	1	p _{at} 1GHz =	115
	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		514
	0.10		0.24		0.073		364
	0.15		0.30		0.091		297
	0.20		0.35		0.107		257
	0.25		0.39		0.119		230
	0.30		0.43		0.131		210
	0.35		0.47		0.143		194
	0.40		0.50		0.152		182
	0.45		0.54		0.165		171
	0.50		0.57		0.174		163
	0.55		0.60		0.183		155
	0.60		0.63		0.192		148
	0.65		0.65		0.198		143
	0.70		0.68		0.207		137
	0.75		0.71		0.216		133
	0.80		0.73		0.222		129
	0.85		0.76		0.232		125
	0.90		0.78		0.238		121
	0.95		0.81		0.247		118
	1.00		0.83		0.253		115

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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