

HUBER+SUHNER® DATA SHEET

Coaxial Cable: RG_223_/U-02



Description

PE-50 Ohm - double screen

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Strand-19	0.9 mm
Dielectric	PE		2.93 mm
Outer conductor	Copper, Silver plated	Braid, 96 %	3.6 mm
Outer conductor	Copper, Silver plated	Braid, 94 %	4.2 mm
Jacket	PVC II (low migration)	RAL 9005 - bk	5.3 mm +/- 0.15
Print	HUBER+SUHNER RG 223 U-02 50 Ohm (PA no.)		

Electrical Data

Impedance	50 Ω +/- 2
Max. operating frequency	6 GHz
Capacitance	101 pF/m
Velocity of signal propagation	66 %
Signal delay	5.03 ns/m
Insulation resistance	$\geq 1 \times 10^8 M\Omega m$
Min. screening effectiveness	>83 dB (up to 1 GHz)
Max. operating voltage	2.5 kV _{rms} (at sea level)
Test voltage	5 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	5.3 kg/100 m
Min. bending radius	static 26 mm
	repeated (for max. 50 bendings) 50 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_223_/U-02
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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 (U9)
	clamped (U10)
	soldered —

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

Coefficients:

a=	0.501	b=	0.067	f _{max} =	6	p _{at} 1GHz =	120
	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
	0.3		0.29		0.088		219
	0.6		0.43		0.131		155
	0.9		0.54		0.165		126
	1.2		0.63		0.192		110
	1.5		0.71		0.216		98
	1.8		0.79		0.241		89
	2.1		0.87		0.265		83
	2.4		0.94		0.286		77
	2.7		1.00		0.305		73
	3.0		1.07		0.326		69
	3.3		1.13		0.344		66
	3.6		1.19		0.363		63
	3.9		1.25		0.381		61
	4.2		1.31		0.399		59
	4.5		1.36		0.415		57
	4.8		1.42		0.433		55
	5.1		1.47		0.448		53
	5.4		1.53		0.466		52
	5.7		1.58		0.482		50
	6.0		1.63		0.497		49

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

WAIVER!

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