

HUBER+SUHNER® DATA SHEET

Coaxial Cable: RG_213_/U



Description

PE-50 Ohm - single screen

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper	Strand-07	2.25 mm
Dielectric	PE		7.28 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 213 U 50 Ohm (PA no.)		

Electrical Data

Impedance	50	Ω +/- 2
Max. operating frequency	1	GHz
Capacitance	101	pF/m
Velocity of signal propagation	66	%
Signal delay	5.03	ns/m
Insulation resistance	$\geq 1 \times 10^8$	M Ω m
Min. screening effectiveness	>40	dB (up to 1 GHz)
Max. operating voltage	5	kV _{rms} (at sea level)
Test voltage	10	kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	15.3	kg/100 m
Min. bending radius	static	50 mm
	repeated (for max. 50 bendings)	100 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_213_/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 (U29)
	clamped (U28)
	soldered —

HUBER+SUHNER® DATA SHEET

Coaxial Cable: RG_213_/U



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

Coefficients:

a=	0.1679	b=	0.0585	f _{max.} =	1	p _{at} 1GHz =	416
	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		1860
	0.10		0.06		0.018		1316
	0.15		0.07		0.021		1074
	0.20		0.09		0.027		930
	0.25		0.10		0.030		832
	0.30		0.11		0.034		760
	0.35		0.12		0.037		703
	0.40		0.13		0.040		658
	0.45		0.14		0.043		620
	0.50		0.15		0.046		588
	0.55		0.16		0.049		561
	0.60		0.17		0.052		537
	0.65		0.17		0.052		516
	0.70		0.18		0.055		497
	0.75		0.19		0.058		480
	0.80		0.20		0.061		465
	0.85		0.20		0.061		451
	0.90		0.21		0.064		439
	0.95		0.22		0.067		427
	1.00		0.23		0.070		416

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