

HUBER+SUHNER® DATA SHEET

Coaxial Cable: RG_393_/U



Description

PFA - 50 Ohm - double screen

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Strand-07	2.46 mm
Dielectric	PFA		7.25 mm
Outer conductor	Copper, Silver plated	Braid, 92 %	8 mm
Outer conductor	Copper, Silver plated	Braid, 94 %	8.75 mm
Jacket	FEP	RAL 8015 - br	9.9 mm +/- 0.25
Print	HUBER+SUHNER RG 393 U 50 Ohm (PA no.)		

Electrical Data

Impedance	50 Ω +/- 2
Max. operating frequency	6 GHz
Capacitance	95.9 pF/m
Velocity of signal propagation	70 %
Signal delay	4.79 ns/m
Insulation resistance	$\geq 1 \times 10^8 \text{ M}\Omega\text{m}$
Min. screening effectiveness	>81 dB (up to 6 GHz)
Max. operating voltage	5.4 kV _{rms} (at sea level)
Test voltage	10.8 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	22.9 kg/100 m
Min. bending radius	static 60 mm
	repeated (for max. 50 bendings) 100 mm
	dynamic 150 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_393_/U
----------	-----------

Additional Information

Remarks

(For details refer to the HUBER+SUHNER RF CABLES GENERAL CATALOGUE or contact your nearest HUBER+SUHNER partner)

Cable group	U33 7 mm / 50 Ohm
-------------	-------------------

HUBER+SUHNER® DATA SHEET

Coaxial Cable: RG_393_/U



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

Coefficients:

a=	0.1749	b=	0.129	f _{max} =	6	p _{at} 1GHz =	1461
	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		0.13		0.040		2667
	0.6		0.21		0.064		1886
	0.9		0.28		0.085		1540
	1.2		0.35		0.107		1334
	1.5		0.41		0.125		1193
	1.8		0.47		0.143		1089
	2.1		0.52		0.158		1008
	2.4		0.58		0.177		943
	2.7		0.64		0.195		889
	3.0		0.69		0.210		844
	3.3		0.74		0.226		804
	3.6		0.80		0.244		770
	3.9		0.85		0.259		740
	4.2		0.90		0.274		713
	4.5		0.95		0.290		689
	4.8		1.00		0.305		667
	5.1		1.05		0.320		647
	5.4		1.10		0.335		629
	5.7		1.15		0.351		612
	6.0		1.20		0.366		596

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