

HUBER+SUHNER® DATA SHEET

Coaxial Cable: RG_174_/U



Description

PE-50 Ohm - single screen

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper plated	Strand-07	0.48 mm
Dielectric	PE (Polyethylene)		1.48 mm
Outer conductor	Copper, Tin plated	Braid, 87 %	2 mm
Jacket	PVC II (low migration)	RAL 9005 - bk	2.55 mm +/- 0.13
Print	HUBER+SUHNER RG 174 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	1.5	kV _{rms} (at sea level)
Test voltage	3	kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	1.12	kg/100 m
Min. bending radius	static	15 mm
	repeated (for max. 50 bendings)	26 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_174_/U

Additional Information

Remarks

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

Cable group U2 2 mm / 50 Ohm

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Rev.: L

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

Coefficients:

a=	0.888	b=	0.034	f _{max.} =	1	p _{at} 1GHz =	37
	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		0.20		0.061		165
	0.10		0.28		0.085		117
	0.15		0.35		0.107		96
	0.20		0.40		0.122		83
	0.25		0.45		0.137		74
	0.30		0.50		0.152		68
	0.35		0.54		0.165		63
	0.40		0.58		0.177		59
	0.45		0.61		0.186		55
	0.50		0.64		0.195		52
	0.55		0.68		0.207		50
	0.60		0.71		0.216		48
	0.65		0.74		0.226		46
	0.70		0.77		0.235		44
	0.75		0.79		0.241		43
	0.80		0.82		0.250		41
	0.85		0.85		0.259		40
	0.90		0.87		0.265		39
	0.95		0.90		0.274		38
	1.00		0.92		0.280		37

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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