

HUBER+SUHNER® DATA SHEET

Coaxial Cable: G_03212-01



Description

PE-50 Ohm - single screen

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Tin plated	Strand-19	0.902 mm
Dielectric	PE		2.95 mm
Outer conductor	Copper, Tin plated	Braid, 95 %	3.6 mm
Jacket	PUR	RAL 9005 - bk	4.95 mm +/- 0.15
Print	No print on jacket		

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	$\geq 1 \times 10^8 M\Omega m$
Min. screening effectiveness	>40 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	3.6 kg/100 m
Min. bending radius	static 25 mm
	repeated (for max. 50 bendings) 50 mm

Environmental Data

Temperature range	-40 °C... + 85 °C
Installation temperature	-20 °C... + 60 °C
Halogen free	IEC 60754
2002/95/EC (RoHS)	compliant

Ordering Information

Order as	G_03212-01
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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 (U7)
	clamped (U7)
	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=	0.4629	b=	0.1012	f _{max} =	1	p _{at} 1GHz =	110
	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		0.11		0.034		492
	0.10		0.16		0.049		348
	0.15		0.19		0.058		284
	0.20		0.23		0.070		246
	0.25		0.26		0.079		220
	0.30		0.28		0.085		201
	0.35		0.31		0.094		186
	0.40		0.33		0.101		174
	0.45		0.36		0.110		164
	0.50		0.38		0.116		156
	0.55		0.40		0.122		148
	0.60		0.42		0.128		142
	0.65		0.44		0.134		136
	0.70		0.46		0.140		131
	0.75		0.48		0.146		127
	0.80		0.49		0.149		123
	0.85		0.51		0.155		119
	0.90		0.53		0.162		116
	0.95		0.55		0.168		113
	1.00		0.56		0.171		110

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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