

HUBER+SUHNER® DATA SHEET

Coaxial Cable: G_03232_D-01



Description

PE-50 Ohm - double screen

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Tin plated	Strand-19	0.9 mm
Dielectric	PE		2.95 mm
Outer conductor	Copper, Tin plated	Braid, 95 %	3.6 mm
Outer conductor	Copper, Tin plated	Braid, 93 %	4.25 mm
Jacket	PVC	RAL 9005 - bk	5.35 mm +/- 0.15
Print	HUBER+SUHNER G 03232 D-01 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 Ω m
Min. screening effectiveness	>78 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	5.7 kg/100 m
Min. bending radius	static 25 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 G_03232_D-01

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: $(p \cdot f^{0.5})$]

Coefficients:

a=	0.431	b=	0.135	f _{max.} =	6	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
	0.3		0.28		0.085		201
	0.6		0.41		0.125		142
	0.9		0.53		0.162		116
	1.2		0.63		0.192		100
	1.5		0.73		0.222		90
	1.8		0.82		0.250		82
	2.1		0.91		0.277		76
	2.4		0.99		0.302		71
	2.7		1.07		0.326		67
	3.0		1.15		0.351		64
	3.3		1.23		0.375		61
	3.6		1.30		0.396		58
	3.9		1.38		0.421		56
	4.2		1.45		0.442		54
	4.5		1.52		0.463		52
	4.8		1.59		0.485		50
	5.1		1.66		0.506		49
	5.4		1.73		0.527		47
	5.7		1.80		0.549		46
	6.0		1.87		0.570		45

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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