

HUBER+SUHNER® DATA SHEET

Coaxial Cable: G_03232_D-01



Description

Double screened coaxial cable

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 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 30 mm
	dynamic 80 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
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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 (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=	0.4431	b=	0.0815	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		0.27		0.082		201
	0.6		0.39		0.119		142
	0.9		0.49		0.149		116
	1.2		0.58		0.177		100
	1.5		0.66		0.201		90
	1.8		0.74		0.226		82
	2.1		0.81		0.247		76
	2.4		0.88		0.268		71
	2.7		0.95		0.290		67
	3.0		1.01		0.308		64
	3.3		1.07		0.326		61
	3.6		1.13		0.344		58
	3.9		1.19		0.363		56
	4.2		1.25		0.381		54
	4.5		1.31		0.399		52
	4.8		1.36		0.415		50
	5.1		1.42		0.433		49
	5.4		1.47		0.448		47
	5.7		1.52		0.463		46
	6.0		1.57		0.479		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.



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

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