

HUBER+SUHNER® DATA SHEET

Coaxial Cable: G_03233

Rev.: B



Description

Single screened coaxial cable



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper	Strand-07	0.49 mm
Dielectric	PE (Polyethylene)		2.95 mm
Outer conductor	Copper	Braid, 95 %	3.6 mm
Jacket	PVC (Polyvinyl Chloride)	RAL 9005 - bk	5 mm +/- 0.15
Print	HUBER+SUHNER G 03233 75 Ohm (PA no.)		

Electrical Data

Impedance	75 Ω +/- 3
Max. operating frequency	1 GHz
Capacitance	67.1 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	>39 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	3.9 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

Ordering Information

Order as G_03233

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 U12

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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=	0.4925	b=	0.035	f _{max} =	1	p _{at} 1GHz =	82
	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		367
	0.10		0.16		0.049		259
	0.15		0.20		0.061		212
	0.20		0.23		0.070		183
	0.25		0.26		0.079		164
	0.30		0.28		0.085		150
	0.35		0.30		0.091		139
	0.40		0.33		0.101		130
	0.45		0.35		0.107		122
	0.50		0.37		0.113		116
	0.55		0.38		0.116		111
	0.60		0.40		0.122		106
	0.65		0.42		0.128		102
	0.70		0.44		0.134		98
	0.75		0.45		0.137		95
	0.80		0.47		0.143		92
	0.85		0.48		0.146		89
	0.90		0.50		0.152		86
	0.95		0.51		0.155		84
	1.00		0.53		0.162		82

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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