

HUBER+SUHNER® DATA SHEET

Coaxial Cable: S_07233_B-60



Description

UL AWM Style Nr. 1354 Double screened coaxial cable

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper	Wire	1.56 mm
Dielectric	SPE (Foamed Polyethylene)		7.25 mm
Outer conductor	PETP	longitudinal Foil, 100 %	7.3 mm
Outer conductor	Copper, Tin plated	Braid, 89 %	8.1 mm
Jacket	PVC (UL)	RAL 9005 - bk	10.3 mm +/- 0.2
Print	HUBER+SUHNER S 07233 B-60 (UR) AWM (PA no.)		

Electrical Data

Impedance	75 Ω +/- 3
Max. operating frequency	2 GHz
Capacitance	54 pF/m
Velocity of signal propagation	82 %
Signal delay	4.08 ns/m
Insulation resistance	$\geq 1 \times 10^8$ M Ω m
Min. screening effectiveness	>90 dB (up to 2 GHz)
Max. operating voltage	1 kV _{rms} (at sea level)
Test voltage	2 kV _{rms} (50 Hz/1 min)
Voltage Rating UL	30 V

Mechanical Data

Weight	12.4 kg/100 m
Min. bending radius	static 100 mm
	dynamic 160 mm

Environmental Data

Temperature range	-25 °C... + 85 °C
Temp. Rating UL	60 °C
Installation temperature	-20 °C... + 60 °C
Flammability	UL (horizontal flame test)
2002/95/EC (RoHS)	compliant

Ordering Information

Order as S_07233_B-60

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 (on request)
	clamped (on request)
	soldered —

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Rev.: G

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

Coefficients:

a=	0.1294	b=	0.0329	f _{max} =	2	p _{at} 1GHz =	350
	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
	0.1		0.04		0.012		1107
	0.2		0.06		0.018		783
	0.3		0.08		0.024		639
	0.4		0.09		0.027		553
	0.5		0.11		0.034		495
	0.6		0.12		0.037		452
	0.7		0.13		0.040		418
	0.8		0.14		0.043		391
	0.9		0.15		0.046		369
	1.0		0.16		0.049		350
	1.1		0.17		0.052		334
	1.2		0.18		0.055		320
	1.3		0.19		0.058		307
	1.4		0.20		0.061		296
	1.5		0.21		0.064		286
	1.6		0.22		0.067		277
	1.7		0.22		0.067		268
	1.8		0.23		0.070		261
	1.9		0.24		0.073		254
	2.0		0.25		0.076		247

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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