

HUBER+SUHNER® DATA SHEET

Coaxial Cable: G_03333-60



Description

Triax - PE - 75 Ohm (UL AWM Style 1354)

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper	Strand-07	0.49 mm
Dielectric	PE		2.95 mm
Outer conductor	Copper	Braid, 95 %	3.6 mm
Jacket	PVC (UL)	RAL 9005 - bk	5 mm +/- 0.15
2 nd Screen	Copper	Braid, 90 %	5.7 mm
Outer Jacket	PVC (UL)	RAL 9005 - bk	7.35 mm +/- 0.25
Print	HUBER+SUHNER G 03333-60 75 Ohm (UL logo) AWM Style 1354 (PA no.)		

Electrical Data

Impedance	75 Ω +/- 1.5
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	>40 dB (up to 1 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	8.4 kg/100 m	
Min. bending radius	static	35 mm
	repeated (for max. 50 bendings)	73 mm
	dynamic	147 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 G_03333-60

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 —
	clamped (W3)
	soldered —

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Rev.: I

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

Coefficients:

a=	0.472	b=	0.117	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		0.27		0.082		164
	0.30		0.29		0.088		150
	0.35		0.32		0.098		139
	0.40		0.35		0.107		130
	0.45		0.37		0.113		122
	0.50		0.39		0.119		116
	0.55		0.41		0.125		111
	0.60		0.44		0.134		106
	0.65		0.46		0.140		102
	0.70		0.48		0.146		98
	0.75		0.50		0.152		95
	0.80		0.52		0.158		92
	0.85		0.53		0.162		89
	0.90		0.55		0.168		86
	0.95		0.57		0.174		84
	1.00		0.59		0.180		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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