

HUBER+SUHNER® DATA SHEET

Coaxial Cable: G_02233



Description

PE-75 Ohm - single screen

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper plated	Wire	0.24 mm
Dielectric	PE		1.5 mm
Outer conductor	Copper	Braid, 96 %	2 mm
Jacket	PVC	RAL 7035 - gr	2.8 mm +/- 0.1
Print	HUBER+SUHNER G 02233 75 Ohm (PA no.)		

Electrical Data

Impedance	75 Ω +/- 3
Max. operating frequency	1 GHz
Capacitance	67 pF/m
Velocity of signal propagation	66 %
Signal delay	5.03 ns/m
Insulation resistance	$\geq 1 \times 10^8 \text{ M}\Omega\text{m}$
Min. screening effectiveness	>38 dB (up to 1 GHz)
Max. operating voltage	1 kV _{rms} (at sea level)
Test voltage	2 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	1.3 kg/100 m
Min. bending radius	static 15 mm
	repeated (for max. 50 bendings) 30 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_02233

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 (U5)
	soldered —

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

Coefficients:

a=	0.8588	b=	0.0352	f _{max} =	1	p _{at} 1GHz =	33
	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		0.19		0.058		148
	0.10		0.28		0.085		104
	0.15		0.34		0.104		85
	0.20		0.39		0.119		74
	0.25		0.44		0.134		66
	0.30		0.48		0.146		60
	0.35		0.52		0.158		56
	0.40		0.56		0.171		52
	0.45		0.59		0.180		49
	0.50		0.62		0.189		47
	0.55		0.66		0.201		44
	0.60		0.69		0.210		43
	0.65		0.72		0.219		41
	0.70		0.74		0.226		39
	0.75		0.77		0.235		38
	0.80		0.80		0.244		37
	0.85		0.82		0.250		36
	0.90		0.85		0.259		35
	0.95		0.87		0.265		34
	1.00		0.89		0.271		33

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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