

# HUBER+SUHNER® DATA SHEET

## Coaxial Cable: G\_04233\_D-10



### Description

PE-75 Ohm - high screened - precision type

### Technical Data

#### Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper plated	Wire	0.58 mm
Dielectric	PE		3.64 mm
Outer conductor	Copper, Tin plated	Braid, 97 %	4.5 mm
Outer conductor	Micro Metal	Tape (h), 100 %	4.6 mm
Outer conductor	Copper, Tin plated	Braid, 97 %	5.35 mm
Jacket	PVC II (non migration)	RAL 9005 - bk	6.5 mm +/- 0.15
Print	HUBER+SUHNER G 04233 D-10 75 Ohm (PA no.)		

#### Electrical Data

Impedance	75 $\Omega$ +/- 1.5
Max. operating frequency	2 GHz
Capacitance	67 pF/m
Velocity of signal propagation	66 %
Signal delay	5.07 ns/m
Insulation resistance	$\geq 1 \times 10^8$ M $\Omega$ m
Min. screening effectiveness	>78 dB (up to 3 GHz)
Max. operating voltage	3 kV <sub>rms</sub> (at sea level)
Test voltage	6 kV <sub>rms</sub> (50 Hz/1 min)

#### Mechanical Data

Weight	8 kg/100 m
Min. bending radius	static 35 mm repeated (for max. 50 bendings) 100 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\_04233\_D-10

#### 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 (U18) clamped (U18) soldered —
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Rev.: F

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

Coefficients:

a=	0.38	b=	0.0829	f <sub>max</sub> =	2	p <sub>at</sub> 1GHz =	130
	<b>Frequency</b>		<b>Nom. attenuation</b>		<b>Nom. attenuation</b>		<b>Max. CW power</b>
	<b>(GHz)</b>		<b>(dB / m)</b>		<b>(dB / ft)</b>		<b>(watt)</b>
			sea level 25° C ambient temperature		sea level 25° C ambient temperature		sea level 40° C ambient temperature
	0.1		0.13		0.040		411
	0.2		0.19		0.058		291
	0.3		0.23		0.070		237
	0.4		0.27		0.082		206
	0.5		0.31		0.094		184
	0.6		0.34		0.104		168
	0.7		0.38		0.116		155
	0.8		0.41		0.125		145
	0.9		0.44		0.134		137
	1.0		0.46		0.140		130
	1.1		0.49		0.149		124
	1.2		0.52		0.158		119
	1.3		0.54		0.165		114
	1.4		0.57		0.174		110
	1.5		0.59		0.180		106
	1.6		0.61		0.186		103
	1.7		0.64		0.195		100
	1.8		0.66		0.201		97
	1.9		0.68		0.207		94
	2.0		0.70		0.213		92

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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