

# HUBER+SUHNER® DATA SHEET

## Coaxial Cable: G\_02133\_D-05



Rev.: H



### Description

PE-75 Ohm - double screen

### Technical Data

#### Construction

	Material	Detail	Diameter
Centre conductor	Copper	Wire	0.32 mm
Dielectric	PE		1.95 mm
Outer conductor	Copper, Tin plated	Braid, 91 %	2.4 mm
Outer conductor	Copper, Tin plated	Braid, 89 %	2.85 mm
Jacket	PVC (UL)	RAL 9010 - wh	3.6 mm +/- 0.1
Print	3002		

#### Electrical Data

Impedance	75 $\Omega$ +/- 4
Max. operating frequency	1.75 GHz
Capacitance	67 pF/m
Velocity of signal propagation	66 %
Signal delay	5.03 ns/m
Insulation resistance	$\geq 1 \times 10^8 M\Omega m$
Min. screening effectiveness	>78 dB (up to 1.75 GHz)
Max. operating voltage	1.75 kV <sub>rms</sub> (at sea level)
Test voltage	3.5 kV <sub>rms</sub> (50 Hz/1 min)

#### Mechanical Data

Weight	2.4 kg/100 m
Min. bending radius	static 20 mm
	repeated (for max. 50 bendings) 40 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\_02133\_D-05

#### 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 (n/a)
	soldered —

# HUBER+SUHNER® DATA SHEET

## Coaxial Cable: G\_02133\_D-05



Rev.: H

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

Coefficients:

a=	0.596	b=	0.116	f <sub>max</sub> =	1.75	p <sub>at</sub> 1GHz=	33
	<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		0.20		0.061		104
	0.2		0.29		0.088		74
	0.3		0.36		0.110		60
	0.4		0.42		0.128		52
	0.4		0.42		0.128		52
	0.5		0.48		0.146		47
	0.6		0.53		0.162		43
	0.7		0.58		0.177		39
	0.8		0.63		0.192		37
	0.9		0.67		0.204		35
	1.0		0.71		0.216		33
	1.1		0.75		0.229		31
	1.1		0.75		0.229		31
	1.2		0.79		0.241		30
	1.3		0.83		0.253		29
	1.4		0.87		0.265		28
	1.5		0.90		0.274		27
	1.6		0.94		0.286		26
	1.7		0.97		0.296		25
	1.8		1.01		0.308		25

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.



**HUBER+SUHNER AG**  
RF Industrial  
9100 Herisau, Switzerland  
Phone +41 (0)71 353 41 11  
Fax +41 (0)71 353 45 90  
www.hubersuhner.com

**HUBER+SUHNER – Excellence in Connectivity Solutions**