

# HUBER+SUHNER® DATA SHEET

## Coaxial Cable: GX\_03173-01



### Description

Single screened coaxial cable - flame retardant - free of halogen

### Technical Data

#### Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper plated	Strand-07	0.42 mm
Dielectric	PEX (Polyethylene cross-linked)		2.45 mm
Outer conductor	Copper, Tin plated	Braid, 91 %	2.9 mm
Jacket	RADOX (LSFH)	RAL 7000 - gr	3.7 mm +/- 0.1
Print	HUBER+SUHNER GX 03173-01 75 Ohm (PA no.)		

#### Electrical Data

Impedance	75 $\Omega$ +/- 3
Max. operating frequency	1 GHz
Capacitance	67 pF/m
Velocity of signal propagation	66 %
Signal delay	5.03 ns/m
Insulation resistance	$\geq 1 \times 10^8$ M $\Omega$ m
Min. screening effectiveness	>40 dB (up to 1 GHz)
Max. operating voltage	2 kV <sub>rms</sub> (at sea level)
Test voltage	4 kV <sub>rms</sub> (50 Hz/1 min)

#### Mechanical Data

Weight	2.1 kg/100 m
Min. bending radius	static 20 mm
	dynamic 60 mm

#### Environmental Data

Temperature range	-40 °C... + 105 °C
Installation temperature	-20 °C... + 60 °C
Flammability	IEC 60332-1
Halogen free	IEC 60754
2002/95/EC (RoHS)	compliant

#### Ordering Information

Order as	GX_03173-01
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#### 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 (U6)
	soldered —

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Rev.: E

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

Coefficients:

a=	0.5995	b=	0.0993	f <sub>max.</sub> =	1	p <sub>at</sub> 1GHz =	170
	<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
	0.05		0.14		0.043		760
	0.10		0.20		0.061		538
	0.15		0.25		0.076		439
	0.20		0.29		0.088		380
	0.25		0.32		0.098		340
	0.30		0.36		0.110		310
	0.35		0.39		0.119		287
	0.40		0.42		0.128		269
	0.45		0.45		0.137		253
	0.50		0.47		0.143		240
	0.55		0.50		0.152		229
	0.60		0.52		0.158		219
	0.65		0.55		0.168		211
	0.70		0.57		0.174		203
	0.75		0.59		0.180		196
	0.80		0.62		0.189		190
	0.85		0.64		0.195		184
	0.90		0.66		0.201		179
	0.95		0.68		0.207		174
	1.00		0.70		0.213		170

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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