

HUBER+SUHNER® DATA SHEET

Coaxial Cable: G_02232-09



Description

PE-50 Ohm - single screen

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper	Strand-07	0.49 mm
Dielectric	PE		1.5 mm
Outer conductor	Copper	Braid, 96 %	2 mm
Jacket	PVC	RAL 7035 - gr	2.55 mm +/- 0.13
Print	No print on jacket		

Electrical Data

Impedance	50 Ω +/- 2
Max. operating frequency	1 GHz
Capacitance	101 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	1.5 kV _{rms} (at sea level)
Test voltage	3 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	1.3 kg/100 m
Min. bending radius	static 13 mm
	repeated (for max. 50 bendings) 25 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_02232-09

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 (U2)
	clamped (U2)
	soldered —

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

Coefficients:

a=	0.867	b=	0.1289	f _{max} =	1	p _{at} 1GHz =	38
	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		0.20		0.061		170
	0.10		0.29		0.088		120
	0.15		0.36		0.110		98
	0.20		0.41		0.125		85
	0.25		0.47		0.143		76
	0.30		0.51		0.155		69
	0.35		0.56		0.171		64
	0.40		0.60		0.183		60
	0.45		0.64		0.195		57
	0.50		0.68		0.207		54
	0.55		0.71		0.216		51
	0.60		0.75		0.229		49
	0.65		0.78		0.238		47
	0.70		0.82		0.250		45
	0.75		0.85		0.259		44
	0.80		0.88		0.268		42
	0.85		0.91		0.277		41
	0.90		0.94		0.286		40
	0.95		0.97		0.296		39
	1.00		1.00		0.305		38

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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