

HUBER+SUHNER® DATA SHEET

Coaxial Cable: G_02232_D



Description

PE-50 Ohm - double 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
Outer conductor	Copper	Braid, 93 %	2.5 mm
Jacket	PVC II (low migration)	RAL 9005 - bk	3.1 mm +/- 0.1
Print	HUBER+SUHNER G 02232 D 50 Ohm (PA no.)		

Electrical Data

Impedance	50	Ω +/- 2
Max. operating frequency	6	GHz
Capacitance	101	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	>78	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	2.1	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_02232_D

Additional Information

Remarks

(For details refer to the HUBER+SUHNER RF CABLES GENERAL CATALOGUE or contact your nearest HUBER+SUHNER partner)

Cable group U4 2 mm / 50 Ohm

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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=	0.7616	b=	0.1325	f _{max.} =	6	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
	0.3		0.46		0.140		69
	0.6		0.67		0.204		49
	0.9		0.84		0.256		40
	1.2		0.99		0.302		35
	1.5		1.13		0.344		31
	1.8		1.26		0.384		28
	2.1		1.38		0.421		26
	2.4		1.50		0.457		25
	2.7		1.61		0.491		23
	3.0		1.72		0.524		22
	3.3		1.82		0.555		21
	3.6		1.92		0.585		20
	3.9		2.02		0.616		19
	4.2		2.12		0.646		19
	4.5		2.21		0.674		18
	4.8		2.30		0.701		17
	5.1		2.40		0.731		17
	5.4		2.49		0.759		16
	5.7		2.57		0.783		16
	6.0		2.66		0.811		16

HUBER+SUHNER is certified according to ISO 9001 and ISO 14001

WAIVER!

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