

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 (non 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	$\geq 1 \times 10^8$ M Ω 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)

Suitable Connectors

Cable group	crimped (U4)
	clamped (U4)
	soldered —

HUBER+SUHNER® DATA SHEET

Coaxial Cable: G_02232_D



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

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!

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