

HUBER+SUHNER® DATA SHEET

Coaxial Cable: G_03232



Description

PE-50 Ohm - single screen

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper	Strand-07	0.95 mm
Dielectric	PE		2.95 mm
Outer conductor	Copper	Braid, 95 %	3.6 mm
Jacket	PVC	RAL 9005 - bk	5 mm +/- 0.15
Print	HUBER+SUHNER G 03232 50 Ohm (PA no.)		

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 Ω m
Min. screening effectiveness	>39 dB (up to 1 GHz)
Max. operating voltage	2.5 kV _{rms} (at sea level)
Test voltage	5 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	3.7 kg/100 m
Min. bending radius	static 25 mm
	repeated (for max. 50 bendings) 50 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_03232

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 (U7)
	clamped (U7)
	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=	0.4027	b=	0.08	f _{max} =	1	p _{at} 1GHz =	110
	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		0.09		0.027		492
	0.10		0.14		0.043		348
	0.15		0.17		0.052		284
	0.20		0.20		0.061		246
	0.25		0.22		0.067		220
	0.30		0.24		0.073		201
	0.35		0.27		0.082		186
	0.40		0.29		0.088		174
	0.45		0.31		0.094		164
	0.50		0.32		0.098		156
	0.55		0.34		0.104		148
	0.60		0.36		0.110		142
	0.65		0.38		0.116		136
	0.70		0.39		0.119		131
	0.75		0.41		0.125		127
	0.80		0.42		0.128		123
	0.85		0.44		0.134		119
	0.90		0.45		0.137		116
	0.95		0.47		0.143		113
	1.00		0.48		0.146		110

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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