

HUBER+SUHNER® DATA SHEET

Coaxial Cable: S_12272-04

Description

Double screened coaxial cable - free of halogen



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Aluminium / Copper	Wire	4.2 mm
Dielectric	SPE (Foamed Polyethylene)		11.5 mm
Outer conductor	Copper	longitudinal Foil, 100 %	11.5 mm
Outer conductor	Copper	Braid, 60 %	12.5 mm
Jacket	PE (Polyethylene)	RAL 9005 - bk	15 mm +/- 0.2
Print	HUBER+SUHNER S 12272-04 50 Ohm (PA no.)		

Electrical Data

Impedance	50	Ω +/- 2
Max. operating frequency	10	GHz
Capacitance	81.6	pF/m
Velocity of signal propagation	82	%
Signal delay	4.08	ns/m
Insulation resistance	$\geq 1 \times 10^8$	M Ω m
Min. screening effectiveness	>38	dB (up to 10 GHz)
Max. operating voltage	1.7	kV _{rms} (at sea level)
Test voltage	3	kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	19.1	kg/100 m
Min. bending radius	static	150 mm
	repeated (for max. 50 bendings)	300 mm

Environmental Data

Temperature range	-40 °C... + 85 °C
Installation temperature	-20 °C... + 60 °C
Halogen free	IEC 60754

Ordering Information

Order as	S_12272-04
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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	U40
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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=	0.0757	b=	0.0202	f _{max.} =	10	p _{at} 1GHz =	854
	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
	0.5		0.06		0.018		1208
	1.0		0.10		0.030		854
	1.5		0.12		0.037		697
	2.0		0.15		0.046		604
	2.5		0.17		0.052		540
	3.0		0.19		0.058		493
	3.5		0.21		0.064		456
	4.0		0.23		0.070		427
	4.5		0.25		0.076		403
	5.0		0.27		0.082		382
	5.5		0.29		0.088		364
	6.0		0.31		0.094		349
	6.5		0.32		0.098		335
	7.0		0.34		0.104		323
	7.5		0.36		0.110		312
	8.0		0.38		0.116		302
	8.5		0.39		0.119		293
	9.0		0.41		0.125		285
	9.5		0.43		0.131		277
	10.0		0.44		0.134		270

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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