

HUBER+SUHNER® DATA SHEET

Coaxial Cable: S_04262_D-02



Description

PE Foam - 50 Ohm - double screen

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Strand-19	1.43 mm
Dielectric	SPE (Foamed Polyethylene)		3.77 mm
Outer conductor	Copper, Silver plated	Braid, 92 %	4.35 mm
Outer conductor	Copper, Silver plated	Braid, 77 %	5.25 mm
Jacket	LSFH (modified polyethylene)	RAL 9005 - bk	6.5 mm +/- 0.15
Print	HUBER+SUHNER S 04262 D-02 50 Ohm (PA no.)		

Electrical Data

Impedance	50	Ω +/- 2
Max. operating frequency	6	GHz
Capacitance	82	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	>80	dB (up to 6 GHz)
Max. operating voltage	0.5	kV _{rms} (at sea level)
Test voltage	1	kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	6.8	kg/100 m
Min. bending radius	static	32 mm
	repeated (for max. 50 bendings)	65 mm

Environmental Data

Temperature range	-40 °C... + 85 °C
Installation temperature	-20 °C... + 60 °C
Flammability	IEC 60332-1
Halogen free	IEC 60754
2002/95/EC (RoHS)	compliant

Ordering Information

Order as S_04262_D-02

Additional Information

Remarks

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

Cable group X8 4 mm / 50 Ohm

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Rev.: G

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

Coefficients:

a=	0.3026	b=	0.0525	f _{max.} =	6	p _{at} 1GHz =	127
	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		0.18		0.055		232
	0.6		0.27		0.082		164
	0.9		0.33		0.101		134
	1.2		0.39		0.119		116
	1.5		0.45		0.137		104
	1.8		0.50		0.152		95
	2.1		0.55		0.168		88
	2.4		0.59		0.180		82
	2.7		0.64		0.195		77
	3.0		0.68		0.207		73
	3.3		0.72		0.219		70
	3.6		0.76		0.232		67
	3.9		0.80		0.244		64
	4.2		0.84		0.256		62
	4.5		0.88		0.268		60
	4.8		0.91		0.277		58
	5.1		0.95		0.290		56
	5.4		0.99		0.302		55
	5.7		1.02		0.311		53
	6.0		1.06		0.323		52

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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