

HUBER+SUHNER® DATA SHEET

Coaxial Cable: S_06162_D-02



Description

Double screened coaxial cable

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	2.05 mm
Dielectric	SPE (Foamed Polyethylene)		5.6 mm
Outer conductor	Copper, Silver plated	Braid, 93 %	6.1 mm
Outer conductor	Copper, Silver plated	Braid, 85 %	6.75 mm
Jacket	PE (LSFH)	RAL 9005 - bk	7.9 mm +/- 0.1
Print	HUBER+SUHNER S 06162 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	>82 dB (up to 6 GHz)
Max. operating voltage	0.75 kV _{rms} (at sea level)
Test voltage	1.5 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	11 kg/100 m
Min. bending radius	static 40 mm
	dynamic 120 mm

Environmental Data

Temperature range	-40 °C... + 85 °C
Installation temperature	-20 °C... + 60 °C
Flammability	IEC 60332-1, UL 1581 - §1080 (VW-1)
Halogen free	IEC 60754
2002/95/EC (RoHS)	compliant

Ordering Information

Order as S_06162_D-02

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 (S24)
	clamped (on request)
	soldered —

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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=	0.1992	b=	0.037	f _{max.} =	6	p _{at} 1GHz =	180
	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		0.12		0.037		329
	0.6		0.18		0.055		232
	0.9		0.22		0.067		190
	1.2		0.26		0.079		164
	1.5		0.30		0.091		147
	1.8		0.33		0.101		134
	2.1		0.37		0.113		124
	2.4		0.40		0.122		116
	2.7		0.43		0.131		110
	3.0		0.46		0.140		104
	3.3		0.48		0.146		99
	3.6		0.51		0.155		95
	3.9		0.54		0.165		91
	4.2		0.56		0.171		88
	4.5		0.59		0.180		85
	4.8		0.61		0.186		82
	5.1		0.64		0.195		80
	5.4		0.66		0.201		77
	5.7		0.69		0.210		75
	6.0		0.71		0.216		73

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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