

HUBER+SUHNER® DATA SHEET

Coaxial Cable: K_01152-07



Description

PFA - 50 Ohm - single screen

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Strand-07	0.19 mm
Dielectric	PFA		0.52 mm
Outer conductor	Copper, Silver plated	Braid, 87 %	0.9 mm
Jacket	PFA	RAL 9010 - wh	1.25 mm +/- 0.05
Print	(no print)		

Electrical Data

Impedance	50 Ω +/- 5
Max. operating frequency	1 GHz
Capacitance	96.6 pF/m
Velocity of signal propagation	69 %
Signal delay	4.83 ns/m
Insulation resistance	$\geq 1 \times 10^8 M\Omega m$
Min. screening effectiveness	>40 dB (up to 1 GHz)
Max. operating voltage	0.4 kV _{rms} (at sea level)
Test voltage	0.8 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	0.9 kg/100 m
Min. bending radius	static 6 mm
	repeated (for max. 50 bendings) 12 mm
	dynamic 20 mm

Environmental Data

Temperature range	-80 °C... + 205 °C
Installation temperature	-20 °C... + 60 °C
Flammability	IEC 60332-3 (A), UL (horizontal flame test)
2002/95/EC (RoHS)	compliant

Ordering Information

Order as	K_01152-07
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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	crimped (U0)
	clamped —
	soldered —

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Rev.: L



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

Coefficients:

a=	2.21	b=	0.259	f _{max} =	1	p _{at} 1GHz =	27
	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		0.51		0.155		121
	0.10		0.72		0.219		85
	0.15		0.89		0.271		70
	0.20		1.04		0.317		60
	0.25		1.17		0.357		54
	0.30		1.29		0.393		49
	0.35		1.40		0.427		46
	0.40		1.50		0.457		43
	0.45		1.60		0.488		40
	0.50		1.69		0.515		38
	0.55		1.78		0.543		36
	0.60		1.87		0.570		35
	0.65		1.95		0.594		33
	0.70		2.03		0.619		32
	0.75		2.11		0.643		31
	0.80		2.18		0.664		30
	0.85		2.26		0.689		29
	0.90		2.33		0.710		28
	0.95		2.40		0.731		28
	1.00		2.47		0.753		27

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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