

# HUBER+SUHNER® DATA SHEET

## Coaxial Cable: SX\_04172\_B-60



### Description

PE Foam cross-linked - 50 Ohm - double screened (UL AWM Style 1354) - Germain Lloyd accredited

### Technical Data

#### Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	1.4 mm
Dielectric	SPEX (Crosslink Foam PE)		3.8 mm
Outer conductor	Aluminum / PES	longitudinal Foil	4 mm
	Copper, Tin plated	Braid, 86 %	4.53 mm
Jacket	RADOX	RAL 9005 - bk	5.5 mm +/- 0.1
Print	HUBER+SUHNER SX04172B-60 50Ohm (UL logo) AWM Style1354 IEC60332-22 (PA no.)		

#### Electrical Data

Impedance	50	$\Omega$ +/- 2
Max. operating frequency	6	GHz
Capacitance	82	pF/m
Velocity of signal propagation	82	%
Signal delay	4.1	ns/m
Insulation resistance	$\geq 1 \times 10^8$	M $\Omega$ m
Max. operating voltage	0.7	kV <sub>rms</sub> (at sea level)
Test voltage	1.4	kV <sub>rms</sub> (50 Hz/1 min)
Voltage Rating UL	30 V	

#### Mechanical Data

Weight	4.78	kg/100 m
Min. bending radius	static	25 mm
	repeated (for max. 50 bendings)	90 mm

#### Environmental Data

Temperature range	-40 °C... + 105 °C
Temp. Rating UL	80 °C
Flammability	EN 60332-1-2, IEC 60332-3-22, IEC 60092-359, EN 50266-2-2 NF C 32-070 C2, NF C 32-070 C1, EN 50264-1
Smoke density	EN 61034-2, NF X 10-702
Halogen free	IEC 60754
Toxic fume	NF X 70-100
2002/95/EC (RoHS)	compliant

#### Ordering Information

Order as SX\_04172\_B-60

#### 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	—
	clamped	—
	soldered	—

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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=	0.233	b=	0.0575	f <sub>max.</sub> =	6	p <sub>at</sub> 1GHz =	198
	<b>Frequency</b>		<b>Nom. attenuation</b>		<b>Nom. attenuation</b>		<b>Max. CW power</b>
	<b>(GHz)</b>		<b>(dB / m)</b>		<b>(dB / ft)</b>		<b>(watt)</b>
			sea level 25° C ambient temperature		sea level 25° C ambient temperature		sea level 40° C ambient temperature
	0.3		0.14		0.043		361
	0.6		0.21		0.064		256
	0.9		0.27		0.082		209
	1.2		0.32		0.098		181
	1.5		0.37		0.113		162
	1.8		0.42		0.128		148
	2.1		0.46		0.140		137
	2.4		0.50		0.152		128
	2.7		0.54		0.165		120
	3.0		0.58		0.177		114
	3.3		0.61		0.186		109
	3.6		0.65		0.198		104
	3.9		0.68		0.207		100
	4.2		0.72		0.219		97
	4.5		0.75		0.229		93
	4.8		0.79		0.241		90
	5.1		0.82		0.250		88
	5.4		0.85		0.259		85
	5.7		0.88		0.268		83
	6.0		0.92		0.280		81

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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