

# HUBER+SUHNER® DATA SHEET

## Coaxial Cable: SX\_03232\_B-60

Rev.: E



### Description

PE Foam cross-linked - 50 Ohm - high screened (UL AWM Style 1354)

### Technical Data

#### Construction

	Material	Detail	Diameter
Centre conductor	Copper	Wire	1.065 mm
Dielectric	SPEX (Crosslink Foam PE)		2.96 mm
Outer conductor	PETP	longitudinal Foil, 100 %	3.05 mm
Outer conductor	Copper, Tin plated	Braid, 90 %	3.8 mm
Jacket	PVC (UL)	RAL 9005 - bk	4.5 mm +/- 0.15
Print	HUBER+SUHNER SX 03232 B-60 50 Ohm (UL logo) AWM Style 1354 (PA no.)		

#### Electrical Data

Impedance	50	$\Omega$ +/- 2
Max. operating frequency	5	GHz
Capacitance	82	pF/m
Velocity of signal propagation	81	%
Signal delay	4.1	ns/m
Insulation resistance	$\geq 1 \times 10^8$	M $\Omega$ m
Min. screening effectiveness	>85	dB (up to 2 GHz)
Max. operating voltage	0.4	kV <sub>rms</sub> (at sea level)
Test voltage	0.8	kV <sub>rms</sub> (50 Hz/1 min)
Voltage Rating UL	30	V

#### Mechanical Data

Weight	3.19	kg/100 m
Min. bending radius	static	20 mm
	repeated (for max. 50 bendings)	40 mm

#### Environmental Data

Temperature range	-40 °C... + 105 °C
Temp. Rating UL	80 °C
Installation temperature	-20 °C... + 60 °C
Flammability	UL 1581 § 1080 (VW-1)
2002/95/EC (RoHS)	compliant

#### Ordering Information

Order as SX\_03232\_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=	0.324	b=	0.0457	f <sub>max.</sub> =	5	p <sub>at</sub> 1GHz =	125
	<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		0.19		0.058		228
	0.5		0.25		0.076		177
	0.8		0.33		0.101		140
	1.0		0.37		0.113		125
	1.3		0.43		0.131		110
	1.5		0.47		0.143		102
	1.8		0.52		0.158		93
	2.0		0.55		0.168		88
	2.3		0.60		0.183		82
	2.5		0.63		0.192		79
	2.8		0.67		0.204		75
	3.0		0.70		0.213		72
	3.3		0.74		0.226		69
	3.5		0.77		0.235		67
	3.8		0.81		0.247		64
	4.0		0.83		0.253		63
	4.3		0.87		0.265		60
	4.5		0.89		0.271		59
	4.8		0.93		0.283		57
	5.0		0.95		0.290		56

HUBER+SUHNER is certified according to ISO 9001 and ISO 14001

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