

# HUBER+SUHNER® DATA SHEET

## Coaxial Cable: SPUMA\_240



### Description

PE Foam - 50 Ohm - double screened

### Technical Data

#### Construction

	Material	Detail	Diameter
Centre conductor	Copper	Wire	1.42 mm
Dielectric	SPE (Foamed Polyethylene)		3.81 mm
Outer conductor	Aluminum / PES	longitudinal Foil, 100 %	3.96 mm
Outer conductor	Copper, Tin plated	Braid, 90 %	4.52 mm
Jacket	PE (Polyethylene)	RAL 9005 - bk	6.15 mm +/- 0.13
Print	HUBER+SUHNER SPUMA 240 50 Ohm (PA no.)		

#### Electrical Data

Impedance	50	$\Omega$ +/- 2
Max. operating frequency	6	GHz
Capacitance	79	pF/m
Velocity of signal propagation	84	%
Signal delay	3.97	ns/m
Insulation resistance	$\geq 1 \times 10^8$	M $\Omega$ m
Min. screening effectiveness	> 90	dB (up to 6 GHz)
Max. operating voltage	1.2	kV <sub>rms</sub> (at sea level)
Test voltage	2	kV <sub>rms</sub> (50 Hz/1 min)

#### Mechanical Data

Weight	5	kg/100 m
Min. bending radius	static	19 mm
	repeated (for max. 50 bendings)	60 mm

#### Environmental Data

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

#### Ordering Information

Order as SPUMA\_240

#### Additional Information

##### Remarks

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

**Cable group** X28 4 mm / 50 Ohm

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Rev.: A

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

Coefficients:

a=	0.2508	b=	0.011	f <sub>max</sub> =	6	p <sub>at</sub> 1GHz =	260
	<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		475
	0.6		0.20		0.061		336
	0.9		0.25		0.076		274
	1.2		0.29		0.088		237
	1.5		0.32		0.098		212
	1.8		0.36		0.110		194
	2.1		0.39		0.119		179
	2.4		0.41		0.125		168
	2.7		0.44		0.134		158
	3.0		0.47		0.143		150
	3.3		0.49		0.149		143
	3.6		0.52		0.158		137
	3.9		0.54		0.165		132
	4.2		0.56		0.171		127
	4.5		0.58		0.177		123
	4.8		0.60		0.183		119
	5.1		0.62		0.189		115
	5.4		0.64		0.195		112
	5.7		0.66		0.201		109
	6.0		0.68		0.207		106

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

**WAIVER!**

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**HUBER+SUHNER AG**  
**RF Industrial**  
**9100 Herisau, Switzerland**  
 Phone +41 (0)71 353 41 11  
 Fax +41 (0)71 353 45 90  
 www.hubersuhner.com

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