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 Ω +/- 2
Operating Frequency	6 GHz
Capacitance	79 pF/m
Velocity of signal propagation	84 %
Signal delay	3.97 ns/m
Insulation resistance	≥ 1 x 10^8 MΩm
Min. screening effectiveness	≥ 90 dB (up to 6 GHz)
Max. operating voltage	≤ 1.2 kV_{rms} (at sea level)
Test voltage	2 kV_{rms} (50 Hz/1 min)

Mechanical Data

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

Environmental Data

Temperature range	-40 °C... +85 °C
Installation temperature	-20 °C... +60 °C
Halogen test	IEC 60754
2011/65/EU (RoHS)	compliant

Additional Information

Ordering Information

Order as	SPUMA_240

Remarks

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

Suitable Connectors

Cable group	X28 4 mm / 50 Ohm

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Matrix typical Attenuation [formula: (a*f^0.5 + b*f)] and maximum Power CW [formula: (p/f^0.5)]
Coefficients:

a =	0.2508	b =	0.011	f_{max} =	6	P at 1GHz =	260

Frequency (GHz)	Nom. attenuation (dB / m) sea level 25° C ambient temperature	Nom. attenuation (dB / ft) sea level 25° C ambient temperature	Max. CW power (watt) sea level 40° C ambient temperature
0.3	0.14	0.043	475
0.6	0.2	0.061	336
0.9	0.25	0.076	274
1.2	0.29	0.088	237
1.5	0.32	0.099	212
1.8	0.36	0.109	194
2.1	0.39	0.118	179
2.4	0.41	0.126	168
2.7	0.44	0.135	158
3.0	0.47	0.142	150
3.3	0.49	0.150	143
3.6	0.52	0.157	137
3.9	0.54	0.164	132
4.2	0.56	0.171	127
4.5	0.58	0.177	123
4.8	0.6	0.184	119
5.1	0.62	0.190	115
5.4	0.64	0.196	112
5.7	0.66	0.202	109
6.0	0.68	0.207	106