

Coaxial Cable Spuma_400-RS-FR

Description

PE Foam - 50 Ohm - double screened



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper	Strand, Low-loss	2.74 mm
Dielectric	SPE (Foamed Polyethylene)		7.24 mm
Outer conductor	Aluminum / PES	longitudinal Foil, 100%	7.4 mm
Outer conductor	Copper, Tin plated	Braid, 91 %	8.15 mm
Jacket	TPU (Urethane TPE)	RAL 9005 - bk	10.25 mm +/- 0.1

Print: HUBER+SUHNER SPUMA 400-RS-FR 50 Ohm (PA no.)

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	6 GHz
Capacitance	78 pF/m
Velocity of signal propagation	85 %
Signal delay	3.9 ns/m
Insulation resistance	≥ 1 x 10 ⁶ MΩm
Min. screening effectiveness	≥ 90 dB (up to 6 GHz)
Max. operating voltage	≤ 1.6 kV _{rms} (at sea level)
Test voltage	3 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	14.2 kg/100 m
Min. bending radius	static repeated (for ≤ 50 bendings)
	25 mm 100 mm

Environmental Data

Temperature range	-40 °C... +85 °C
Installation temperature	-20 °C... +60 °C
Flammability	EN 60332-1-2,
2011/65/EU (RoHS)	compliant

Additional Information

Ordering Information

Order as	Spuma_400-RS-FR
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Remarks

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

Suitable Connectors

Cable group	X32 7 mm / 50 Ohm
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Matrix typical Attenuation [formula: $(a \cdot f^{0.5} + b \cdot f)$] and maximum Power CW [formula: $(p/f^{0.5})$]

Coefficients:

a = 0.1439

b = 0.0061

f_{max} = 6

P at 1GHz = 560

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	0,08	0,025	1022
0,6	0,12	0,035	723
0,9	0,14	0,043	590
1,2	0,16	0,050	511
1,5	0,19	0,057	457
1,8	0,2	0,062	417
2,1	0,22	0,067	386
2,4	0,24	0,072	361
2,7	0,25	0,077	341
3,0	0,27	0,082	323
3,3	0,28	0,086	308
3,6	0,29	0,090	295
3,9	0,31	0,094	284
4,2	0,32	0,098	273
4,5	0,33	0,101	264
4,8	0,34	0,105	256
5,1	0,36	0,109	248
5,4	0,37	0,112	241
5,7	0,38	0,115	235
6,0	0,39	0,119	229