

Coaxial Cable SPUMA_195

Description

PE Foam - 50 Ohm - double screened



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper	Wire	0.94 mm
Dielectric	SPE (Foamed Polyethylene)		2.79 mm
Outer conductor	Aluminum / PES	longitudinal Foil, 100%	2.95 mm
Outer conductor	Copper, Tin plated	Braid, 89 %	3.53 mm
Jacket	PE (Polyethylene)	RAL 9005 - bk	4.95 mm +/- 0.13

Print: HUBER+SUHNER SPUMA 195 50 Ohm (PA no.)

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	6 GHz
Capacitance	83 pF/m
Velocity of signal propagation	80 %
Signal delay	4.17 ns/m
Insulation resistance	$\geq 1 \times 10^8$ M Ω m
Min. screening effectiveness	≥ 90 dB (up to 6 GHz)
Max. operating voltage	≤ 0.75 kV _{rms} (at sea level)
Test voltage	1.5 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	3 kg/100 m
Min. bending radius	static 12.5 mm
	repeated (for ≤ 50 bendings) 50 mm

Environmental Data

Temperature range	-40 °C... +85 °C
Installation temperature	-20 °C... +60 °C
Halogen test	IEC 60754
2011/95/EC (RoHS)	compliant

Additional Information

Ordering Information

Order as	SPUMA_195
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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	X27 3 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 = 0.3754

b = 0.0169

f_{max} = 6

P at 1GHz = 160

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	0.21	0.064	292
0.6	0.3	0.092	207
0.9	0.37	0.113	169
1.2	0.43	0.132	146
1.5	0.49	0.148	131
1.8	0.53	0.163	119
2.1	0.58	0.177	110
2.4	0.62	0.190	103
2.7	0.66	0.202	97
3.0	0.7	0.214	92
3.3	0.74	0.225	88
3.6	0.77	0.236	84
3.9	0.81	0.246	81
4.2	0.84	0.256	78
4.5	0.87	0.266	75
4.8	0.9	0.275	73
5.1	0.93	0.285	71
5.4	0.96	0.294	69
5.7	0.99	0.303	67
6.0	1.02	0.311	65