

## Coaxial Cable SPUMA\_195-FR-01

### Description

PE Foam - 50 Ohm - double screened



### Technical Data

#### Construction

	Material	Detail	Diameter
Centre conductor	Copper	Wire	0.94 mm
Dielectric	SPE (Foamed Polyethylene)		2.83 mm
Outer conductor	Aluminum / PES	longitudinal Foil, 100%	2.95 mm
Outer conductor	Copper, Tin plated	Braid, 92 %	3.52 mm
Jacket	LSFH (modified polyethylene)	RAL 9005 - bk	4.98 mm +/- 0.1

Print: HUBER+SUHNER SPUMA 195-FR-01 50 Ohm (PA no.)

#### Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	6 GHz
Capacitance	90.8 pF/m
Velocity of signal propagation	76.1 %
Signal delay	4.54 ns/m
Insulation resistance	≥ 1 x 10 <sup>6</sup> MΩm
Min. screening effectiveness	≥ 90 dB (up to 6 GHz)
Max. operating voltage	≤ 0.5 kV <sub>rms</sub> (at sea level)
Test voltage	1 kV <sub>rms</sub> (50 Hz/1 min)

#### Mechanical Data

Weight		3.97 kg/100 m
Min. bending radius	static	10 mm
	repeated (for ≤ 50 bendings)	40 mm

#### Environmental Data

Temperature range	-40 °C... +85 °C
Installation temperature	-20 °C... +60 °C
Flammability	EN 60332-1-2, EN 50305, 9.1.2,
Smoke density	EN 61034-2
Halogen test	IEC 60754
2011/95/EC (RoHS)	compliant

### Additional Information

EN 45545 compliant hazard level for indoor cables: HL3

DIN 5510-2, NF F 16-101 and NFPA-130 compliant

#### Ordering Information

Order as SPUMA\_195-FR-01

#### 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<sub>max</sub> = 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