

## 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	≥ 1 x 10 <sup>8</sup> MΩm
Min. screening effectiveness	≥ 90 dB (up to 6 GHz)
Max. operating voltage	≤ 0.75 kV <sub>rms</sub> (at sea level)
Test voltage	1.5 kV <sub>rms</sub> (50 Hz/1 min)

#### Mechanical Data

Weight		3 kg/100 m
Min. bending radius	static	12.5 mm
	repeated (for ≤ bendings)	50 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\_195

#### 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

## Coaxial Cable SPUMA\_195

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

Coefficients:

a = 0.3704

b = 0.0154

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	0.063	292
0.6	0.3	0.090	207
0.9	0.37	0.111	169
1.2	0.42	0.129	146
1.5	0.48	0.145	131
1.8	0.52	0.160	119
2.1	0.57	0.173	110
2.4	0.61	0.186	103
2.7	0.65	0.198	97
3.0	0.69	0.210	92
3.3	0.72	0.221	88
3.6	0.76	0.231	84
3.9	0.79	0.241	81
4.2	0.82	0.251	78
4.5	0.86	0.261	75
4.8	0.89	0.270	73
5.1	0.92	0.279	71
5.4	0.94	0.288	69
5.7	0.97	0.296	67
6.0	1.0	0.305	65