

**Low-loss, 50 Ohm, 6 GHz, 85°C, ø4.95 mm, PE jacket**

SPUMA\_195

**Properties**

- Halogen free cable with standard dimensions
- Low smoke
- - ozone, UV and weathering resistance
- CPR qualified



<b>Construction</b>			
<b>Component</b>	<b>Material</b>	<b>Detail</b>	<b>Diameter</b>
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
	PE (Polyethylene)	RAL 9005 - bk	4.95 mm +/- 0.13 mm

<b>Electrical data</b>	
Impedance	50 Ω +/- 2Ω
Operating frequency	≤ 6 GHz
Capacitance	83 pF/m
Inductance	0.2 μH/m
Velocity of signal propagation	80 %
Signal delay	4.17 ns/m
Screening effectiveness	90 dB at frequency 6GHz
Insulation resistance	100000000 MΩ*m
Inner conductor resistance	24.9 Ω/km
Operating Voltage (at sea level)	≤ 0.75 kVrms
Test voltage (50 Hz/1 min)	≤ 1.5 kVrms

<b>Mechanical data</b>	
Weight	approx. 30 g/m
Static bending radius	≥ 12.5 mm
Repeated bending radius	50 mm

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Environmental data	
Operation temperature	-40 °C ... 85 °C
Installation temperature	-20 °C ... 60°C
CPR class	Fca
Fire characteristics	free of halogenes, acc. standard IEC 60754

Suitable connectors	
Cable group	X27

Ordering information		
Item number	Item description	Available as assembly only
84151727	SPUMA_195	No

Power Matrix			
Calculation: typical Attenuation [ formula: (a*f^0.5 + b*f) ] and maximum Power CW [ formula: (p/f^0.5)]			
a coefficient typical =	<b>0.3754</b>	b coefficient typical =	<b>0.0169</b>
fmax =	<b>6.0</b>	P at 1 GHz =	<b>160.0</b>
<b>Frequency</b>	<b>Nom. attenuation</b>	<b>Nom. attenuation</b>	<b>CW power</b>
<b>GHz</b>	<b>(dB/m)</b>	<b>(dB/ft)</b>	<b>(W)</b>
	sea level 25°C ambient temperature	sea level 25°C ambient temperature	sea level 40°C ambient temperature
0.10	0.120	0.037	506
0.20	0.171	0.052	358
0.40	0.244	0.074	253
0.60	0.301	0.092	207
1.00	0.392	0.119	160
1.50	0.485	0.148	131
2.00	0.565	0.172	113
6.00	1.021	0.311	65

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