Data Sheet

Flexible RF cable
SPUMA_195

Description

Spuma: Flexible, low-loss RF cables (LMR* alternatives)

50 Ohm, 6 GHz, 85°C, ø4.95 mm, PE jacket, CPR qualified



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
Screening effectiveness		≥ 90 dB (up to 6 GHz)
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	50 mm

Environmental Data

Temperature range	-40 °C ... +85 °C
Installation temperature	-20 °C... +60 °C
Halogen test	IEC 60754
Halogen free	Yes
2011/65/EU (RoHS)	compliant
2006/1907/EC (REACH)	compliant
2000/53/EC (ELV)	compliant
2012/19/EU (WEEE)	no special marking needed
2011/305/EU (CPR)	compliant, Fca

Additional Information

*) LMR is a registered trademark of Times Microwave Inc.

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

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Matrix typical Attenuation [formula: (a*f^0.5 + b*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	Nom. attenuation	Nom. attenuation	Max. CW power
(GHz)	(dB / m)	(dB / ft)	(W)
	sea level 25° C ambient temperature	sea level 25° C ambient temperature	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

Waiver: Fact and figures herein are for information only and do not represent any warranty of any kind.