

Flexible RF cable

SPUMA_400 Item: 84102703

Description

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

50 Ohm, 6 GHz, 85°C, ø10.25 mm, PE jacket, CPR qualified



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Aluminium / Copper	Wire	2.74 mm
Dielectric	SPE (Foamed Polyethylene)		7.24 mm
Outer conductor	Aluminum / PES	longitudinal Foil, 100%	7.4 mm
Outer conductor	Copper, Tin plated	Braid, 71 %	8.15 mm
Jacket	PE (Polyethylene)	RAL 9005 - bk	10.25 mm +/- 0.1

Print: HUBER+SUHNER SPUMA 400 50 Ohm (production order number)

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	6 GHz
Capacitance	78 pF/m
Velocity of signal propagation	85 %
Signal delay	3.9 ns/m
Screening effectiveness	≥ 90 dB (up to 6 GHz)
Operating voltage	≤ 1.6 kV _{rms} (at sea level)
Test voltage	3 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	9.4 kg/100 m
Min. bending radius	static 25 mm 100 mm

Environmental Data

Temperature range	-40 °C ... +85 °C
Installation temperature	-20 °C... +60 °C
Cold bend test	MIL-C-17 § 4.8.19
Halogen test	IEC 60754
Halogen free	Yes
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
1907/2006/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.

Remarks

(For details refer to the HUBER+SUHNER RF CABLES GENERAL CATALOGUE or contact your nearest HUBER+SUHNER partner)

Suitable Connectors

Cable group	U30 7 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 = 0.1241

b = 0.008

f_{max} = 6

P at 1GHz = 600

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	0,07	0,021	1095
0,6	0,1	0,031	775
0,9	0,12	0,038	632
1,2	0,15	0,044	548
1,5	0,16	0,050	490
1,8	0,18	0,055	447
2,1	0,2	0,060	414
2,4	0,21	0,064	387
2,7	0,23	0,069	365
3,0	0,24	0,073	346
3,3	0,25	0,077	330
3,6	0,26	0,081	316
3,9	0,28	0,084	304
4,2	0,29	0,088	293
4,5	0,3	0,091	283
4,8	0,31	0,095	274
5,1	0,32	0,098	266
5,4	0,33	0,101	258
5,7	0,34	0,104	251
6,0	0,35	0,107	245

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