

Flexible RF cable

SPUMA_600 Item: 84151738

Description

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

50 Ohm, 6 GHz, 85°C, ø14.99 mm, PE jacket, CPR qualified



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Aluminium / Copper	Wire	4.44 mm
Dielectric	SPE (Foamed Polyethylene)		11.56 mm
Outer conductor	Aluminum / PES	longitudinal Foil, 100%	11.71 mm
Outer conductor	Copper, Tin plated	Braid, 78 %	12.55 mm
Jacket	PE (Polyethylene)	RAL 9005 - bk	14.99 mm +/- 0.25

Print: HUBER+SUHNER SPUMA 600 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	≤ 2 kV _{rms} (at sea level)
Test voltage	4 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	20 kg/100 m
Min. bending radius	static 38 mm 152 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 - 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

Additional Information

Remarks

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

Suitable Connectors

Cable group	X29 12 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 = 0.0786

b = 0.008

 $f_{\max} = 6$

P at 1GHz = 930

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	0,05	0,014	1698
0,6	0,07	0,020	1201
0,9	0,08	0,025	980
1,2	0,1	0,029	849
1,5	0,11	0,033	759
1,8	0,12	0,037	693
2,1	0,13	0,040	642
2,4	0,14	0,043	600
2,7	0,15	0,046	566
3,0	0,16	0,049	537
3,3	0,17	0,052	512
3,6	0,18	0,054	490
3,9	0,19	0,057	471
4,2	0,19	0,059	454
4,5	0,2	0,062	438
4,8	0,21	0,064	424
5,1	0,22	0,067	412
5,4	0,23	0,069	400
5,7	0,23	0,071	390
6,0	0,24	0,073	380

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