

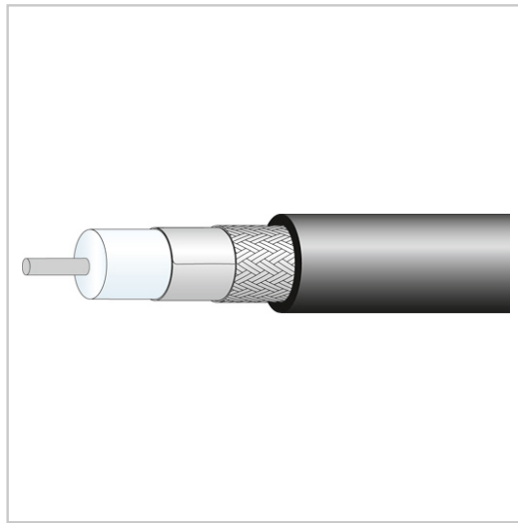


RADIO FREQUENCY

You are here: [Home](#) > [Search result](#) > 84040210

LOW AND HIGH VOLTAGE

SPUMA_400-FR



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HUBER+SUHNER Lead Time (EXW)

Quantity	Lead Time
< 300 M	1 WEEK
> 300 M	4 WEEKS

Item no.:	84040210
Description:	50 Ohm, 6 GHz, 85°C, ø10.25 mm, LSFH jacket, Flame retardant, UL AWM style 1354
Datasheet:	
Cable family:	Spuma: Flexible, low-loss RF cables (LMR* alternatives)
Cable category:	Flexible RF cable



RADIO FREQUENCY

Construction	Material	Detail	Diameter
Center conductor	Aluminium / Copper	Wire	2.74 mm

LOW AND HIGH VOLTAGE

Dielectric	SPE (Foamed Polyethylene)		7.24 mm
Outer conductor	Aluminum / PES	Longitudinal Foil, 100% Coverage	7.4 mm
Outer conductor	Copper, Tin plated	Braid, 78% Coverage	8.15 mm
Jacket	LSFH (modified polyethylene)	RAL 9005 - bk	10.25 mm ±0.1

Electrical data 

Operating frequency:	≤ 6 GHz
Impedance:	50 ± 2 Ω
Capacitance (pF/m):	78
Propagation velocity (% of c):	85
Signal delay (ns/m):	3,9
Insulation resistance dielectric:	≥ 1000000 MΩm
Operating Voltage (at sea level):	≤ 1.6 kV _{rms}
Test voltage:	≤ 3 kV _{rms}
Shielding effectiveness:	≤ 90 dB





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Repeated bending radius: 100 mm

LOW AND HIGH VOLTAGE

Environmental data



Operation temperature: -40 °C to +85 °C

Installation temperature: -20 °C to +60 °C

Temperature rating: 60 °C

Cold bend test: MIL-C-17 § 4.8.19

Flame propagation test: UL 1581 § 1100, UL 1581 § 1090, IEC 60332-3-24, EN 60332-1-2

Smoke emission test: EN 61034-2

Halogen test: IEC 60754

2011/65/EC (RoHS):

2006/1907/EC (REACH):

2002/96/EC (WEEE): no special marking needed

2000/53/EC (ELV):

Additional information



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

Nominal attenuation and power



Nominal attenuation and power

Frequency (GHz)

Attenuation * (dB/m)

Attenuation * (dB/ft)



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0.10	0.040	0.012
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LOW AND HIGH VOLTAGE

0.15	0.049	0.015
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0.20	0.057	0.017
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0.25	0.064	0.020
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0.30	0.070	0.021
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0.45	0.087	0.027
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0.50	0.092	0.028
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0.55	0.096	0.029
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0.60	0.101	0.031
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0.65	0.105	0.032
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0.70	0.109	0.033
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0.75	0.114	0.035
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0.80	0.117	0.036
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0.85	0.121	0.037
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0.90	0.125	0.038
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0.95	0.129	0.039
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1.00	0.132	0.040
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1.50	0.164	0.050
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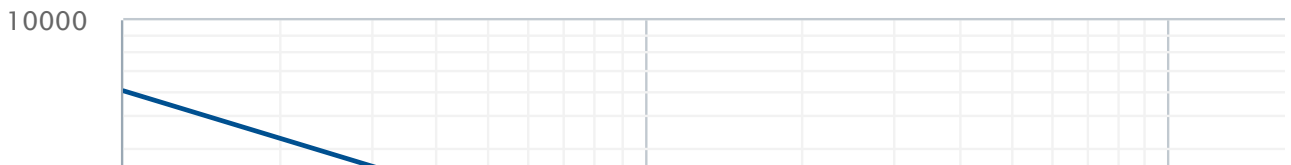
* Attenuation values at +25°C ambient temperature and sea level; ** Power values at +40°C at



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3.00	0.239	0.073
3.50	0.260	0.079
4.00	0.280	0.085
4.50	0.299	0.091
5.00	0.318	0.097
6.00	0.352	0.107

* Attenuation values at +25°C ambient temperature and sea level; ** Power values at +40°C at level

Power graph **



Fiber optics

- Cables
- Connectors
- Adapters
- Accessories
- Assembly & Cable systems
- Fiber management systems
- Enclosures, fiber boxes and outlets

Radio frequency

- Antennas & accessories
- Cables and cable assemblies



Connectors
Adapters