

## Flexible RF cable

**SPUMA\_400-FR-75**    **Item: 85022187**

### Description

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

75 Ohm, 3 GHz, 85°C, ø10.25 mm, LSFH jacket, Flame retardant,

Railway qualified



### Technical Data

#### Construction

	Material	Detail	Diameter
Centre conductor	Copper	Wire	1.65 mm
Dielectric	SPE (Foamed Polyethylene)		7.24 mm
Outer conductor	Aluminum / PES	longitudinal Foil, 100%	7.4 mm
Outer conductor	Copper, Tin plated	Braid, 78 %	8.15 mm
Jacket	LSFH (modified polyethylene)	RAL 9005 - bk	10.25 mm +/- 0.1

Print: HUBER+SUHNER SPUMA 400-FR-75 75 Ohm (production order number)

#### Electrical Data

Impedance	75 Ω +/- 3
Operating Frequency	3 GHz
Capacitance	53 pF/m
Velocity of signal propagation	84 %
Signal delay	3.9 ns/m
Screening effectiveness	≥ 90 dB (up to 3 GHz)
Operating voltage	≤ 1.6 kV <sub>rms</sub> (at sea level)
Test voltage	3 kV <sub>rms</sub> (50 Hz/1 min)

#### Mechanical Data

Weight		12 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
Uv resistance test	ISO 4892-2A
Flame propagation test	EN 60332-1-2, IEC 60332-3-25
Smoke density test	EN 61034-2
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

EN 45545-2 compliant hazard level for indoor cables: HL3 NFPA-130 compliant An operating temperature of -55°C is feasible for static applications. \*) 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	X33 7 mm / 75 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 = 0.119

b = 0.015

f<sub>max</sub> = 3

P at 1GHz = 400

Frequency (GHz)	Nom. attenuation (dB / m) sea level 25° C ambient temperature	Nom. attenuation (dB / ft) sea level 25° C ambient temperature	Max. CW power (W) sea level 40° C ambient temperature
0,15	0,05	0,015	1033
0,3	0,07	0,021	730
0,45	0,09	0,026	596
0,6	0,1	0,031	516
0,75	0,11	0,035	462
0,9	0,13	0,039	422
1,05	0,14	0,042	390
1,2	0,15	0,045	365
1,35	0,16	0,048	344
1,5	0,17	0,051	327
1,65	0,18	0,054	311
1,8	0,19	0,057	298
1,95	0,2	0,060	286
2,1	0,2	0,062	276
2,25	0,21	0,065	267
2,4	0,22	0,067	258
2,55	0,23	0,070	250
2,7	0,24	0,072	243
2,85	0,24	0,074	237
3,0	0,25	0,077	231

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