

Coaxial Cable SPUMA_400-FR-75

Description

PE Foam - 75 Ohm - double screened



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 (PA no.)

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
Insulation resistance	$\geq 1 \times 10^6$ M Ω m
Min. screening effectiveness	≥ 90 dB (up to 3 GHz)
Max. operating voltage	≤ 1.6 kV _{rms} (at sea level)
Test voltage	3 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	12 kg/100 m
Min. bending radius	static 25 mm
	repeated (for ≤ 50 bendings) 100 mm

Environmental Data

Temperature range	-40 °C... +85 °C
Installation temperature	-20 °C... +60 °C
Flammability	EN 60332-1-2, IEC 60332-3-25,
Smoke density	EN 61034-2
Halogen test	IEC 60754
Uv resistance test	ISO 4892-2A
2011/95/EC (RoHS)	compliant

Additional Information

EN 45545 compliant hazard level for indoor cables: HL3

DIN 5510-2 compliant

NFPA-130 compliant

Ordering Information

Order as SPUMA_400-FR-75

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_{max} = 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 (watt) 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