

Coaxial Cable S_07232-01

Description

PE Foam - 50 Ohm - single screen



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper	Strand-07	2.85 mm
Dielectric	SPE (Foamed Polyethylene)		7.42 mm
Outer conductor	Copper	Braid, 95%	8.15 mm
Jacket	PVC II (low migration)	RAL 9005 - bk	10.3 mm +/- 0.2

Print: HUBER+SUHNER S 07232-01 50 Ohm (PA no.)

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	1 GHz
Capacitance	82 pF/m
Velocity of signal propagation	82 %
Signal delay	4.08 ns/m
Insulation resistance	$\geq 1 \times 10^8$ MQm
Min. screening effectiveness	≥ 39 dB (up to 1 GHz)
Max. operating voltage	≤ 1.05 kV _{rms} (at sea level)
Test voltage	2.1 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	14.9 kg/100 m
Min. bending radius	static 50 mm
	repeated (for ≤ 50 bendings) 100 mm

Environmental Data

Temperature range	-25 °C... +85 °C
Installation temperature	-20 °C... +60 °C
2011/65/EU (RoHS)	compliant

Additional Information

Ordering Information

Order as S_07232-01

Remarks

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

Suitable Connectors

Cable group X11 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 = 0.1514

b = 0.0371

f_{max} = 1

P at 1GHz = 550

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
0,05	0,04	0,011	2460
0,1	0,05	0,016	1739
0,15	0,06	0,020	1420
0,2	0,08	0,023	1230
0,25	0,08	0,026	1100
0,3	0,09	0,029	1004
0,35	0,1	0,031	930
0,4	0,11	0,034	870
0,45	0,12	0,036	820
0,5	0,13	0,038	778
0,55	0,13	0,040	742
0,6	0,14	0,043	710
0,65	0,15	0,045	682
0,7	0,15	0,047	657
0,75	0,16	0,048	635
0,8	0,17	0,050	615
0,85	0,17	0,052	597
0,9	0,18	0,054	580
0,95	0,18	0,056	564
1,0	0,19	0,057	550