

HUBER+SUHNER® DATA SHEET

Sencity Avant Antenna: 1399.17.0099



Rev.: AD

SWA-0860/360/4/0/V_2

Description

Light-rail rooftop antenna supports TDMA, D-AMPS, GSM 900, GSM 1800, GSM/PCS 1900, UMTS, 2.4, 3.5, 4.9 Public Safety, 5.3 & 5.8 GHz Bands.
Rugged design, meets EN 50155 railway standard.
Fire retardant acc. to DIN 5510-2, BS 6853, NF F16-101/102, CEN/TS 45545 (2009).
Works also on non-metallic surfaces.



Product Configuration

Technical Data

Electrical Data

	Band 1	Band 2	Band 3	Band 4
Frequency (MHz)	806 - 824	824 - 960	1710 - 2170	2400 - 2700
VSWR	1.9	1.6	1.8	1.5
Gain (dBi)	6	6	8.5	9.5
3dB beamwidth (h) (°)	360	360	360	360

	Band 5	Band 6
Frequency (MHz)	3400 - 3700	4900 - 5935
VSWR	1.5	1.7
Gain (dBi)	9.5	8.5
3dB beamwidth (h) (°)	360	360

General Data

Nominal impedance	50 Ω
DC grounded	Yes
Polarisation	vertical
Connector	N, jack (female), bottom
Composite power max.	100 W at ambient temperature 50 °C
Ground plane	Indicated VSWR values are also valid for installations on non-metallic surfaces (no specific ground plane requirements).

Mechanical Data

Dimensions (mm)	90 x 70 x 250 (Height x Width x Depth)
Weight	0.51 kg
DC Grounding	Designed acc. to UIC 533, DC-grounded antenna element (protection against lightning and short circuit with catenary lines (10 kA/0.1s). Corrosion Low corrosion design acc. to MIL-F-14072(E).

Mounting: Shall be installed in longitudinal position to the wind/driving direction.

Environmental Data

Environmental conditions	outdoor
Operation temperature (°C)	-40 to 85
Storage temperature (°C)	-40 to 85
Transport temperature (°C)	-40 to 85
IP rating	IP 68
Solar radiation	DIN 75220
RoHS 2002/95/EC	compliant
Environmental tests	EN 50155:2004
Flammability rating	DIN 5510-2, BS 6853, NF F16-101/102, CEN/TS 45545 (2009)

HUBER+SUHNER is certified according to ISO 9001 and ISO 14001

WAIVER!

It is exclusively in written agreements that we provide our customers with warrants and representations as to the technical specifications and/or the fitness for any particular purpose. The facts and figures contained herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only.



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Material Data

Radome colour	RAL 5011 (steel blue)
Radome material	ASA_SAN
Back plate/base plate colour	RAL 5011 (steel blue)
Back plate/base plate material	Aluminium

Related Documents

Mounting instruction	DOC-0000248735
Painting instruction	DOC-0000256180
Security instruction	DOC-0000278984
Outline drawing1	DOU-00093283
3D-model (Step)	DOC-0000334227

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