

HUBER+SUHNER® DATA SHEET

Sencity Rail Excel Antenna: 1324.17.0089



Rev.: AE

SPA-2400/40/15/10/V_3

Description

Railway rooftop directional antenna for WiFi and WiMAX bands. High gain.
Rugged design, meets EN 50155 railway standard.
Fire retardant acc. to BS 6853, 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)	2400 - 2550	2550 - 2590	2590 - 2630	2630 - 2650
VSWR	1.5	1.5	1.5	1.5
Gain (dBi)	14.5	13.5	12.5	11.5
3dB beamwidth (h) (°)	40	33	32	31
3dB beamwidth (v) (°)	22	21	21	21

General Data

Nominal impedance	50 Ω
DC grounded	Yes
Polarisation	vertical
Connector	N, jack (female), bottom
Composite power max.	50 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)	85 x 100 x 510 (Height x Width x Depth)
Weight	2.2 kg
High-current-protection:	Designed acc. to UIC 533, DC-grounded antenna element (protection against lightning and short circuit with catenary lines(40kA/0.1s).
Corrosion:	Low corrosion design acc. to MIL-F-14072(E).

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 65
Solar radiation	DIN 75220
RoHS 2002/95/EC	compliant
Environmental tests:	EN 50155:2007
Flammability rating	BS 6853, CEN/TS 45545 (2009)

Material Data

Radome colour	RAL 7043 (dark grey)
Radome material	ASA_SAN
Back plate/base plate colour	RAL 7043 (dark grey)

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.



HUBER+SUHNER AG
RF Industrial
9100 Herisau, Switzerland
Phone +41 (0)71 353 41 11
Fax +41 (0)71 353 45 90
www.hubersuhner.com

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Back plate/base plate material Aluminium

Related Documents

Mounting instruction	DOC-0000249490
Painting instruction	DOC-0000256180
Security instruction	DOC-0000278984
Outline drawing1	DOU-00091409
3D-model (Step)	DOC-0000362745

Additional Information

This product meets the Deutsche Bahn specifications for rolling stock equipment.

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