

HUBER+SUHNER® DATA SHEET

Sencity Rail Excel Antenna: 1324.17.0070



Rev.: X

SPA-2400/50/12/10/V

Description

Railway rooftop 2 ports bi-directional antenna for WiFi and WiMAX bands. High gain. Rugged design, meets EN 50155 railway standard. Works also on non-metallic surfaces. Fire retardant acc. to BS 6853, CEN/TS 45545 (2009).



Product Configuration

Technical Data

Electrical Data

	Band 1	Band 2	Band 3	Band 4
Frequency (MHz)	2400 - 2484	2484 - 2550	2550 - 2600	2600 - 2630
VSWR	1.5	1.5	1.5	1.5
Gain (dBi)	13.5	13	12	11
3dB beamwidth (h) (°)	51	51	52	45
3dB beamwidth (v) (°)	24	25	23	24

	Band 5
Frequency (MHz)	2630 - 2650
VSWR	1.5
Gain	10 dBi
3dB beamwidth (h) (°)	45
3dB beamwidth (v) (°)	24

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).

The above listed parameters are valid for port 1 and port 2.
Please refer to the outline drawing to identify port 1 and port 2.

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

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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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)
Back plate/base plate material	Aluminium

Related Documents

Mounting instruction	DOC-0000257682
Painting instruction	DOC-0000256180
Security instruction	DOC-0000278984
Outline drawing1	DOU-00103284
3D-model (Step)	DOC-0000362727

Additional Information

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

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