HUBER+SUHNER® DATA SHEET Sencity Rail Antenna: 1399.17.0094



SWA-0459/360/4/25/V

Description

Railway rooftop antenna for Tetra, DVB-T, GSM 900, GSM 1800,

GSM 1900, UMTS, LTE, WiFi and WiMAX 2.4, 3.5, 5.3 and 5.8 GHz Bands.

Rugged design, meets EN 50155 railway standard.

Split installation support.

Optional grounding kit available.

Optional conduit support kit available to protect the cabling.

Fire retardant acc. to DIN 5510-2. BS 6853. NF F16-101/102. CEN/TS 45545 (2009).



Product Configuration

Technical Data

Electrical Data

| | Band 1 | Band 2 | Band 3 | Band 4 |
|-----------------|-----------|-----------|-------------|-------------|
| Frequency (MHz) | 380 - 470 | 470 - 960 | 1710 - 2170 | 2400 - 2700 |
| VSWR | 1.8 | 1.8 | 1.5 | 1.4 |
| Gain (dBi) | 4 | 4 | 8 | 7.5 |

| | Band 5 | Band 6 |
|-----------------|-------------|-------------|
| Frequency (MHz) | 3400 - 3700 | 4900 - 5935 |
| VSWR | 1.4 | 1.7 |
| Gain (dBi) | 7.5 | 8.5 |

General Data

Nominal impedance 50Ω DC grounded Yes Polarisation vertical

Connector N, jack (female), bottom

Composite power max. 100 W at ambient temperature 50 °C

Indicated VSWR values are valid for a metallic ground plane Ground plane:

of 0.5 x 0.5m or larger.

Mechanical Data

Corrosion:

Dimensions (mm) 153 x 100 x 256 (Height x Width x Depth)

Weight

High-current-protection: Designed acc. to UIC 533, DC-grounded antenna

element (protection against lightning and short circuit with catenary lines(40kA/0.1s). Low corrosion design acc. to MIL-F-14072(E).

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

Environmental Data

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Environmental conditions outdoor Operation temperature (°C) -40 to 85 Storage temperature (°C) -40 to 85 Transport temperature (°C) -40 to 85 IP rating IP 69K Solar radiation DIN 75220 RoHS 2002/95/EC compliant Environmental tests: EN 50155:2007

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

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 +41 (0)71 353 45 90 www.hubersuhner.com

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Material Data

Radome colour RAL 7043 (dark grey)

Radome material ASA_SAN
Back plate/base plate material Aluminium

Related Products

9091.99.0235 Sencity Rail Antenna grounding kit 9091.99.0236 Sencity Rail conduit Support Kit

Related Documents

 Mounting instruction
 DOC-0000295392

 Painting instruction
 DOC-0000256180

 Security instruction
 DOC-0000278984

 Outline drawing 1
 DOU-00135091

 Outline drawing 2
 DOU-00154160

 3D-model (Step)
 DOC-0000324006

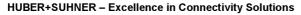
Additional Information

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

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

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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