

## Sencity Rail Antenna K702021

### Description

Railway rooftop antenna for 410-470 MHz.  
Rugged design, meets EN 50155 railway standard.  
Fire retardant acc. to EN 45545-2.  
Works also on non-metallic surfaces.



### Product Configuration

#### Technical Data

##### Electrical Data

	Band 1
Frequency (MHz)	410 - 470
VSWR	1.5
Impedance (Ohm)	50
Gain (dBi)	4
Ambient temperature (°C)	25

##### Ports

	Port 1
Port name	Tetra
Connector	N, jack (female)
Polarization	vertical
DC grounded	Yes

##### Connections

	Band 1
Port 1	X

##### General Data

Indicated VSWR values are valid for a metallic ground plane of 0.5M x 0.5M or larger.  
Indicated Gain dBi values are valid for a metallic ground plane of 1.0M x 1.0M or larger.  
Gain dBd 0 (ref. to the quarter-wave antenna) on a conductive surface with a minimum size of 0.5 x 0.5M or larger.

##### Mechanical Data

Dimensions (mm) 142 x 145 x 80 (Height x Width x Depth)  
Weight (kg) 0.5

Radiator and Flange: Aluminum.  
Radome: Fiberglass, colour: Light grey.  
All screws and nuts: Stainless steel.  
Sealing: Neoprene and rubber.

This antenna, tested by an independent institute, is DC grounded to protect against lightning and short circuit by high voltage lines.

Packaging size (outside): 151 x 87 x 210 mm

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### Environmental Data

Environmental conditions	outdoor
Operation temperature (°C)	-55 to 85
Storage temperature (°C)	-55 to 85
IP rating	IP66
Flammability rating	EN 45545-2
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
Lead-free soldered	yes
WEEE 2012/19/EU	no special marking needed
REACH 1907/2006/EC	compliant

Environmental tests: EN 50155:2007

Flammability rating: EN 45545

### Material Data

Radome colour	grey
Back plate/base plate colour	black
Back plate/base plate material	Aluminium

### Related Documents

Mounting instruction	DOC-0000862954
Painting instruction	DOC-0000256180
Security instruction	DOC-0000278984
Outline drawing	DOU-00392614
3D-model	DOC-0000862976