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DATA SHEET

SENCITY® Rail Antenna

K702021

Properties

- Railway rooftop antenna for 410 to 470 MHz
- Rugged design, meets EN 50155 Railway Standard
- Fire retardant according to EN 45545-2
- Contains a heavy-duty fiberglass radome
- Works also on non-metallic surfaces

Electrical data	
	Band 1
Frequency	410 MHz ... 470 MHz
Impedance	50 Ω
VSWR	1.5
Gain	4 dBi
Ambient Temperature	25 °C

Electrical remarks	
Remarks	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.

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

Connections	
	Port 1
Port name	Tetra
Band 1	✓

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Mechanical data	
Weight	0.5 kg
Dimensions	142 mm x 145 mm x 80 mm (Height x Width x Depth)
	Packaging size (outside): 151 x 87 x 210 mm
Remarks	Radiator and Flange: Aluminum 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.

Material data	
Radome material	Fiberglass
Radome colour	Grey
Back plate/base plate material	Aluminium
Back plate/base plate colour	Black

Environmental data	
Operation temperature	-55 °C ... 85 °C
Storage temperature	-55 °C ... 85 °C
Environment (application)	Outdoor
Ingress protection (IP Rating)	Mated / IP66
Flammability rating	EN 45545-2

Environmental remarks
Environmental tests: EN 50155:2007 Flammability rating: EN 45545

Ordering information		
Item description	Item number	Product name
K702021	84460324	SENCITY® Rail Antenna

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