

MONO BAND Wi-Fi ANTENNA

5150 ÷ 5875 MHz

POLOMARCONI offers a very wide range of wireless products. Our products can be tailored according to the customer's need. M58D1

TRANSPORT

Electrical Specifications		
Frequency band (MHz)	5150 ÷ 5875	
Impedance (Ω)	50	
VSWR	< 2.0	
Continuous Max. Power (W)	30	
Polarization	vertical	
Gain (dB)	0 over $\lambda/4$ monopole	

Connector	1 × Nf
Dimensions (mm)	70 x 80 x 145
Weight (kg)	0.5
Materials base radome connector	Aluminium with SURTEC 650 treatment High impact polycarbonate Silver plated brass
Mounting	on metallic surface (250x250 mm minimum)
Storage Temp. Range	(°C) -40 ÷ +70
Operating Temp. Rang	ge (°C) -40 ÷ +70



Patent n° 1548873 Antenna for train with protective means against high voltages. Patent has been used by SNCF and by the most important producers of trains.

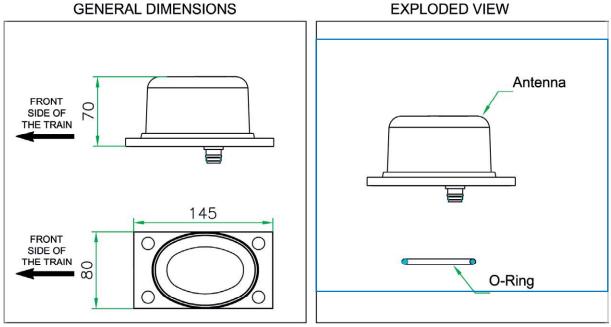


Environmental Specifications		MOUNTING FLANGE
ATMOSPHERIC and CLIMATIC CONDITIONS according to EN 50155 and EN 60068		Mounting: on a conductive surface with a minimum size of 250x250 mm; it's advisable to keep the mounting surface clean for a better electrical contact.
MECHANICAL CONDITIONS according to EN 50155		
EMC according to EN 50121-3-2		 M58D1 4 holes flange: flange with 4 M10 studs included
HIGH VOLTAGE PROTECTION according to EN 50153 and EN 50124-1		
DC GROUNDING, HIGH CURRENT PROTECTION according to EN 50153, UIC 758, UIC 533, EN 50388 and EN 50123		 Grounding and high voltage protection: Our antennas have passed the strict SNCF's tests that approved our products as protected against
Short-circuit currents flow / time before breaking	70 kA / 5 ms – 40 kA / 100 ms (DC) 31.5 kA / 10 ms – 15 kA / 100 ms (AC)	lighting and high-tension voltage thanks to our patented DC and AC grounded system.
RoHS 2011/65/EU compliant		 Multiband: our multiband antennas can operate in several frequency bands simultaneously. Advantage: amplifier included; there is no need of an external low noise GPS amplifier as the
FLAMMABILITY RATING according to EN 45545-2		
IP rating	IP67	internal GPS antenna is already amplified.

Approved by: SNCF, SNCB, TRENITALIA

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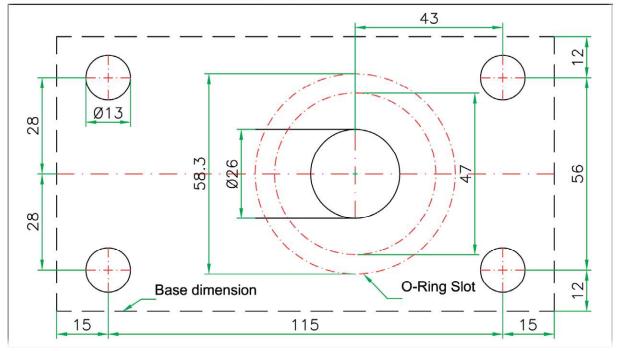
MANUAL OF USE

1) In order to guarantee the SECURITY OF THE STAFF, in case of fall of the catenary and consequent contact of the same one with the antenna it's necessary that the antenna is mounted on conductive surface (metallic) connected to earth.

2) For the use of the antenna on glass-reinforced plastic surfaces or however on non metallic surfaces making sure that the antenna is mounted on a conductive surface (metallic) of reccomanded dimensions 250x250 mm; IN THIS CASE IS NOT GUARANTEED HOW MUCH BROUGHT BACK TO POINT 1 also maintaining the radioelectric characteristics unchanged.

3) For an optimal connection of the antenna with the conductive surface (metallic), before the assembly, strip the zones of contact between surface of antenna's installation and nuts and bolts of implantation.

PERFORATION MASK



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