

## **MONO BAND WIFI ANTENNA**

2400 ÷ 2485 MHz

MWD1

**TRANSPORT** 

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

Electrical Specification	ıs
Frequency band (MHz)	2400 ÷ 2485
Impedance ( $\Omega$ )	50
VSWR	<1.7
Continuous Max. Power (W)	30
Polarization	vertical
Gain (dB) over $\lambda/4$ monopole	0
Operating Temp. Range (°C)	-40 ÷ +70

Mechanical Specifications			
Connector	N female		
Dimensions (mm)	70x80x145		
Weight (kg)	0.5		
Materials Base Radome Connector	Aluminium with SURTEC 650 treatment High impact polycarbonate Silver plated brass		
Mounting	on metallic surface (600x600 mm minimum)		
Reliability	above to 200,000 hours		



Patent  $n^{\circ}$  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 Characteristics		
ATMOSPHERIC and CLIMATIC CO	ONDITIONS according to NF EN 60068	
Temperature conditions	-40°C, +70°C	
Atmospheric pressure	-40°C, +70°C, 95% HR at 2000 m	
Rain, hail, snow, frost	1000 mm/h, 1 J impact, 0.5 m, 3 cm	
Combined wind and train speed	530 km/h	
MECHANICAL CONDITIONS according to NF EN 60068, 61373 and 15-818		
Free falls	1 m	
Hits (vertical, cross-sectional, longitudinal)	30m/s², 30m/s², 50m/s², 30ms	
Impacts	50 J	
GROUNDING and HIGH VOLTAGE PROTECTION according to NF EN 50388 and NF EN 50123		
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)	

## MOUNTING FLANGE

Mounting: on a conductive surface with a mInimum size of 600x600 mm; it's advisable to keep the mounting surface clean for a better electrical contact. MWD1 4 holes flange: flange with 4 M10 studs included; see mounting flange A on page 33.

MWD1-3V 3 screws flange: flange with 3 screws included, according to FEDERTRASPORTI 00104/5;

**Grounding and high voltage protection:** Our antennas have passed the strict SNCF's tests that approved our products as protected against lighting and high-tension voltage thanks to our patented DC and AC grounded system. **Approved by:** SNCF, SNCB, TRENITALIA

Made in Italy. We reserve the right to modify these data without any notice.

**C2-PUBLIC**