

## APX41

HF sectional vehicle whip, monopole, 4.2 m, 1.6–30 MHz

### Tactical Antennas: Vehicle Mount



NSN: 5985-25-126-6707

## Application

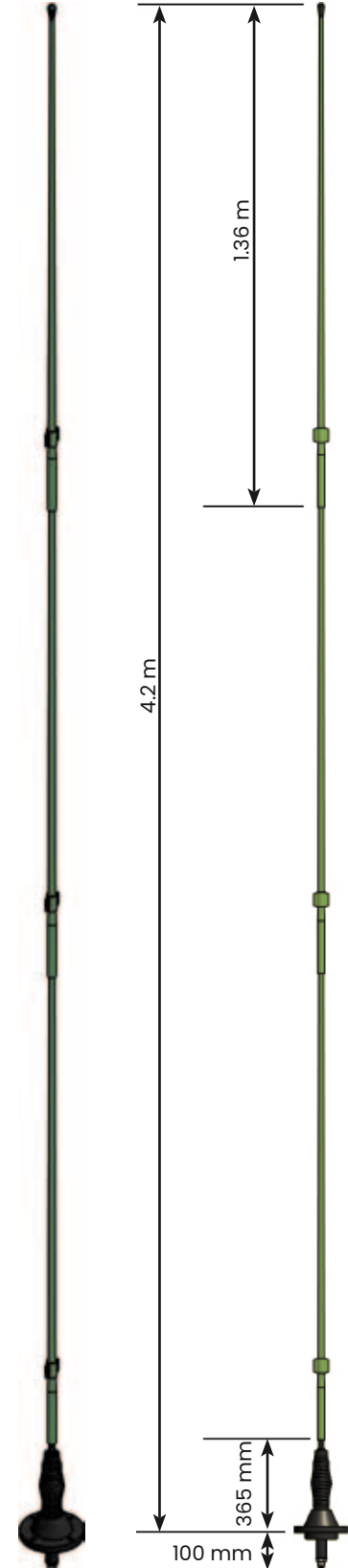
The APX41 is constructed for land mobile services in the HF-band 1.6 – 30 MHz. It consists of three whip sections and a base assembly. The base section is equipped with heavy duty spring coil to absorb shocks and to allow for a semi-permanent deflection of the antenna when the vehicle is on-the-move. To give better performance at lower frequencies while static, it is possible to add up to three more sections.

## Electrical Specifications

<b>Frequency Range</b>	1.6 – 30 MHz
<b>Impedance</b>	Depending on mounting, see Impedance Table
<b>Power Rating</b>	400 W CW
<b>Radiation Diagram</b>	Omnidirectional
<b>Electrical Length</b>	4.2 m
<b>Polarisation</b>	Vertical

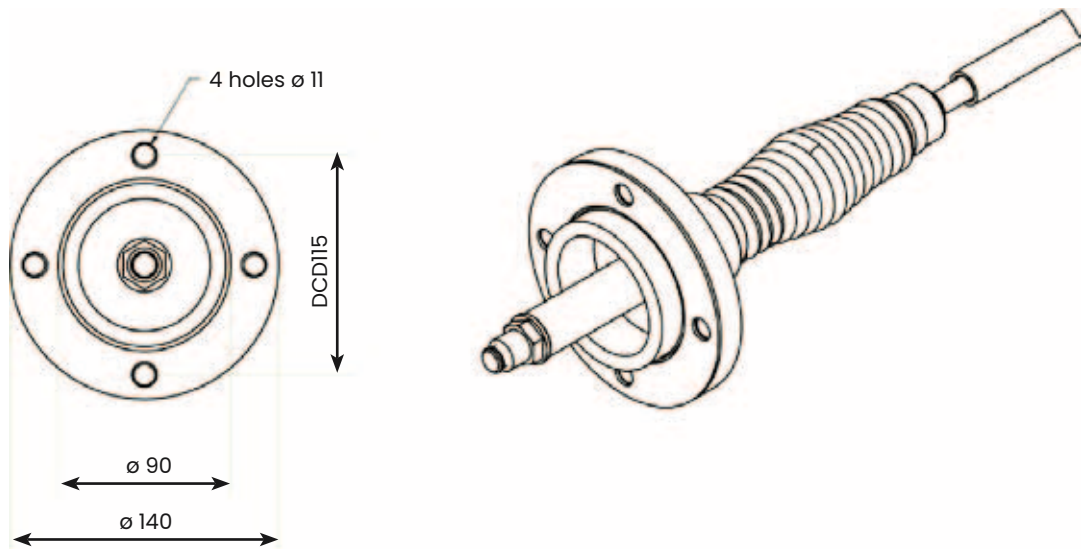
## Mechanical Specifications

<b>Design</b>	End fed whip. Radiating elements completely enclosed in epoxy fibreglass laminate. Metal parts are brass and stainless steel.
<b>Length, Mounted</b>	4.2 m
<b>Weight</b>	4.5 kg
<b>Wind Rating</b>	55 m/s = 201 km/h
<b>Finish</b>	Polyurethane lacquer, olive drab
<b>Temperature Range</b>	- 55°C to + 71°C



## Mounting

The base fits into a standard NATO four-bolt bracket type.



## Typical Impedance Values

Frequency (MHz)	Impedance APX41
2.0	0.3-j1830
3.0	0.7-j1203
4.0	1.1-j884
6.0	2.6-j555
7.0	4-j456
8.0	5-j379
9.0	6-j316
11.0	10-j216
12.0	13-j175
13.0	16-j137
14.0	19-j102
16.0	29-j36
17.0	34-j4
22.0	94+j168
23.0	117+j209
25.0	188+j301
30.0	792+j425

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