

# 3000-900

# CHELTON

## VHF Broadband Vehicle Antenna

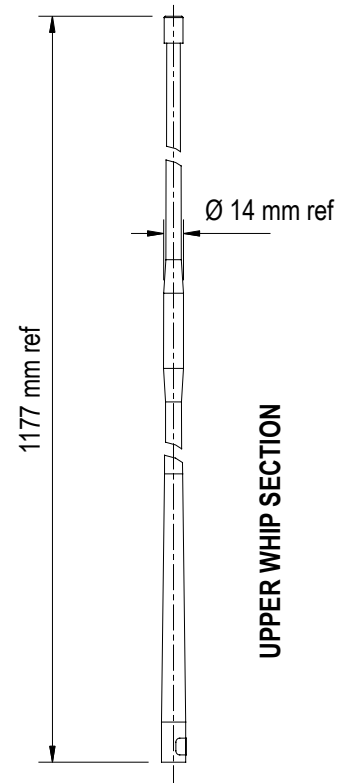
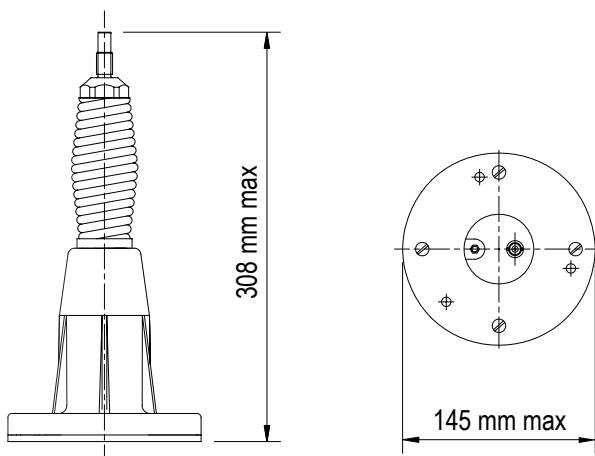
The 3000-900 VHF Broadband Vehicle Antenna has been developed to meet the requirement of the extended VHF band 30 MHz to 108 MHz. It offers excellent electrical performance without the need for tuning.

The slimline, fibreglass, whip is exceptionally resilient to high impact, making it suitable for use on both tracked and wheeled vehicles.

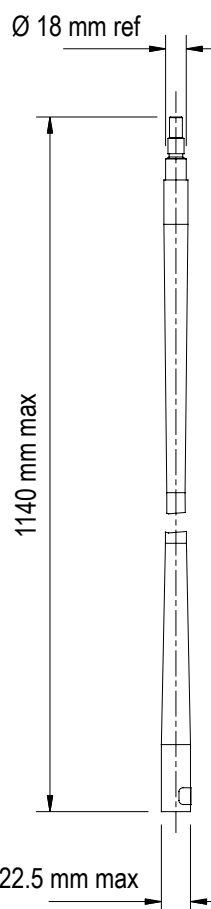
The 3000-900 has been fully tested to meet the demands of equipment used in a military environment and is designed for worldwide operation and deployment.

The two whip sections is available in two colours: NATO Green and Desert Sand.

ANTENNA BASE AND FIXING KIT



UPPER WHIP SECTION



LOWER WHIP SECTION



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## VHF Broadband Vehicle Antenna

### ELECTRICAL

|                                     |  |
|-------------------------------------|--|
| <b>Frequency</b>                    | 30 MHz - 108 MHz   |
| <b>Gain</b>                         | -2 dBi @ 30 MHz<br>0 dBi @ 88 MHz<br>+2 dBi @ 88 MHz                           |
| <b>Polarisation</b>                 | Vertical   |
| <b>Impedance</b>                    | 50 ohm (nominal)   |
| <b>Horizontal Radiation Pattern</b> | Essentially omnidirectional in azimuth   |
| <b>Power Rating</b>                 | 100 W cw (maximum)   |
| <b>VSWR</b>                         | 3:1  |
| <b>Connectors</b>                   | BNC Female   |
| <b>HV Protection</b>                | 16 kV rms 50 Hz/60 Hz from 90 mm above the base of the assembled whip sections |

### MECHANICAL

|                               |   |
|-------------------------------|---|
| <b>Dimensions</b>             | Height: 2.6 m (maximum)<br>Base Diameter: 145 mm (maximum)<br>Diameter of Whip: 15 mm (nominal) |
| <b>Whip Length</b>            | Lower section: 1293 mm<br>Upper section: 1389 mm (including thread)                             |
| <b>Weight</b>                 | 2.7 kg (maximum)  |
| <b>Mounting Configuration</b> | Standard - 3/6 Hole UK/NATO Pattern<br>Optional - 4 Hole US Pattern                             |

### ENVIRONMENTAL

|                    |   |
|--------------------|---|
| <b>Temperature</b> | Operational: -40°C to +70°C<br>Storage: -40°C to +85°C                              |
| <b>Humidity</b>    | Up to 95% RH up to 55%  |
| <b>Wind</b>        | 162 kph   |
| <b>Impact</b>      | Survival - better than 25 impacts at the mid-point of the whip at a speed of 40 kph |

