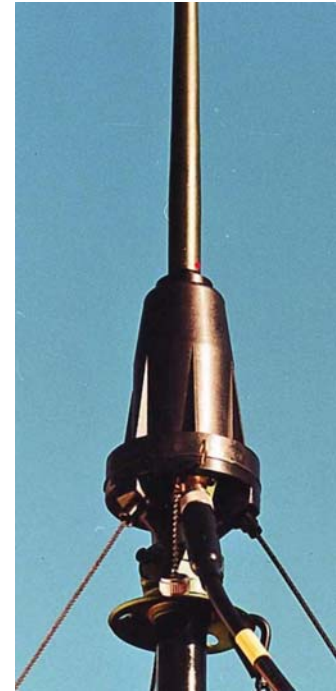


VHF Elevated Whip Antenna 30-108 MHz

Type 3003-920

The 3003-920 VHF tactical Elevated Antenna provides improved performance where an increase in omni-directional range is required over poorly located ground based equipment and vehicle mounted whips. The antenna is broadband and vertically polarised, for inter-operation with vehicle mounted, manpack and portable radios, as well as other elevated antenna sites. It is rugged and able to withstand a wide range of conditions and environments. The elevated antenna base is a ruggedised moulded design, which contains the antenna-matching unit. An integral aluminium base casting fitted with a 24mm spigot allows the 3003-920 to be fitted directly to all NATO standard masts, or any of Racal Antennas lightweight mast series. There are two fibreglass whip-radiating elements, which screw together and are mounted directly to the top of the base assembly. A ground plane is provided by 3 flexible wire stainless steel radials, which are deployed as part of the mast guying system.



Electrical Specification	
Frequency Range	30-108 MHz
Gain	- 2dBi 30 MHz 0dBi 55 MHz +2dBi 88 MHz
Polarisation	Vertical
Horizontal Radiation Pattern	Omnidirectional within ± 1.5 dB
Power Rating	100W (CW)
Impedance	50 Ω
Connector	N type female
Overhead Line Protection	16kV RMS 50/60Hz from 90mm above the centre junction
Mechanical Specification	
Height	2.5m from top of mast with counterpoise elements 3 x 2.3m long extending below
Diameter of Base	100mm
Diameter of Whip	15mm average
Total Weight	2.1kg
Mounting Configuration	To fit 24mm mast socket
Environmental Specification	
Temperature	Operational -40°C to +70°C Storage -55°C to +85°C
Humidity	Up to 95% RH up to 55°C
Wind	162kph when mounted to rigid support

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Racal reserve the right to vary in detail from the description and specification in this publication.