

4011-900-01 HF WIRE ANTENNA KIT

APPLICATION

The HF Wire Antenna Kit provides a versatile range of tuned wire antenna solutions for man-pack applications. This gives the radio operator the opportunity to build an antenna suitable for most requirements. A tuned dipole for medium range skywave paths, and depending on the height above ground will determine the take off angles, Near Vertical Incidence Skywave (NVIS) can be achieved using the kit in an inverted vee configuration with an optimum apex height.



Groundwave radiation (vertical polarisation) antennas such as the 'T', 'L' or end-fed are possible using suitable support structures.

EQUIPMENT

Equipment	Quantity	Drawing Number
Wire Braid Radiating Element	2	4011-107-01
Centre Junction Assembly	1	4011-103-01
BNC Adaptor Assembly	1	4011-105-01
Carrying Case	1	4011-110-01
Coax Cable (15m) BNC Male	1	4020-140-01

TECHNICAL SPECIFICATION

ELECTRICAL SPECIFICATION

Frequency Range	1.6-30 MHz Tuneable with suitable ATU (not supplied)
Power Rating	160W
Connector	50Ω BNC female
Input Impedance	50Ω nominal
Pattern	Dependant on configuration
Polarisation	Dependant on configuration
Electrical Length	½ wave in horizontal dipole configuration

MECHANICAL SPECIFICATION

Design	The radiating elements are constructed of tinned copper braid with a 100% continuous filament of 'Kevlar' and an insulating outer coating of PVC. Each radiating element is wound on a glass reinforced nylon winder board. The tuned dipole centre junction is moulded in black polypropylene.
Height	Dependant on configuration
Weight	1.91kg
Sections	Element: 0.4kg Centre junction: 0.116kg BNC adaptor: 0.35kg Coaxial cable: 0.65kg
Finish	The radiating elements are finished with an outer coating of PVC. Both the centre junction and BNC adaptor are moulded in black polypropylene. The winder board is constructed of moulded glass reinforced nylon.
Optional	A range of sectional mast supports are available, please ask for further details.
ENVIRONMENTAL SPECIFICATION	This product has been fully tested to meet Military environmental conditions of DEF STAN 00-35

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Racal reserve the right to vary in detail from the description and specification in this publication. Issue: 08/03