

# 4011-900

# CHELTON

## HF Wire Antenna Kit

The 4011-900 HF Wire Antenna Kit provides a versatile range of tuned wire antenna solutions for use with vehicle borne or manpack applications. This gives the radio operator the opportunity to deploy an antenna suitable for most requirements.

The kit can be configured as a tuned dipole for medium range skywave paths, with the take off angle dependent on the apex height above ground.

Near Vertical Incidence Skywave (NVIS) can be achieved using the kit in an inverted "V" configuration with an optimum apex height.

The radiating element 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 onto a glass reinforced nylon winder board. The tuned dipole centre junction is moulded in black polypropylene. The winder board is constructed of moulded glass reinforced nylon.



EQUIPMENT	QTY	PART NUMBER
Wire Braid Radiating Element	2	4011-107-01
Centre Junction Assembly	1	4011-103-01
BNC Adaptor Assembly	1	4011-105-01
Coax Cable (15m) BNC Male	1	4020-140-01
Carrying Case	1	4011-110-01

### ELECTRICAL

<b>Frequency</b>	1.6 MHz - 30 MHz Tuneable with suitable Antenna Tuning Unit (not supplied)
<b>Polarisation</b>	Dependent on configuration
<b>Power Rating</b>	160W CW (maximum)
<b>Impedance</b>	50 ohm (nominal)
<b>Radiation Pattern</b>	Dependent on configuration
<b>Electrical Length</b>	½ wave in horizontal dipole configuration
<b>Connectors</b>	
Balun	BNC Female
Feeder Cable	BNC Male / BNC Male

### MECHANICAL

<b>Dimensions</b>	Height: Dependent on configuration
<b>Weight of kit</b>	Overall 1.91 kg
	Element 0.4 kg
	Centre Junction 0.116 kg
	BNC Adaptor 0.35 kg
	Coaxial Cable 0.65 kg
<b>Optional</b>	A range of sectional mast supports are available, please ask for further details.

### ENVIRONMENTAL

This product has been fully tested to meet Military environmental conditions of DEF STAN 00-35