

HF Tactical & Transportable Wire Antenna Systems 2-30 MHz

905 Series

The 905 Tactical HF Antenna Series provides a short, medium and long range HF skywave capability for transportable radio stations in one compact package.

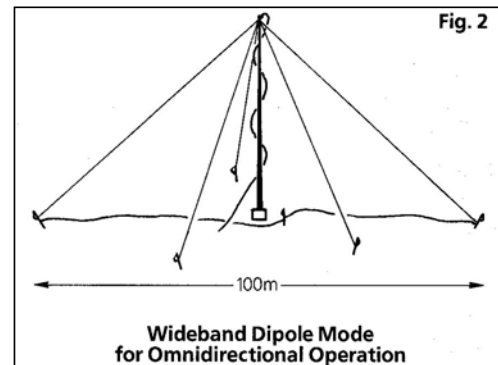
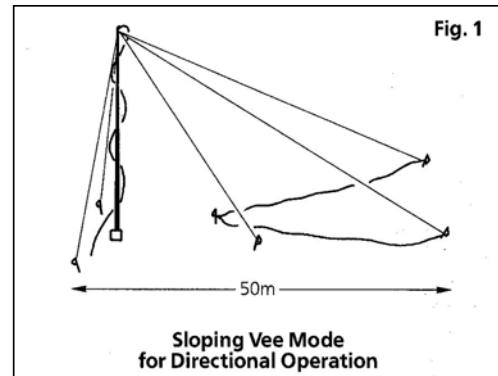
The kit can be deployed in either a Wideband Terminated Dipole mode for 2 to 30 MHz omni-directional coverage or in a Sloping Vee mode for 8 to 30 MHz directional point-to-point communications.

In the Wideband Dipole mode (up to 12MHz) the antenna produces an omni-directional, high angle radiation characteristic which is ideal for short-to-medium range combat net radio applications. At the higher frequencies (above 12MHz) the angle of vertical radiation decreases and the horizontal pattern tends to become bi-directional like the horizontal dipole.

In the Sloping Vee mode the antenna produces a low angle, narrow beam radiation characteristic over a frequency range of 8 to 30 MHz, the vertical take-off angle varying from 40° at 8 MHz to 18° at 30 MHz. This vertical pattern is ideal for medium-to-long range, point-to-point working.

Available in four power options of 150W, 400W, 500W or 1kW PEP. The antennas are designed to be supported at heights of between 8 and 15 metres and so can be used with Racal's lightweight telescopic mast series (model 716) or the 9 metre sectionalised fibreglass mast (model 675). Other convenient supports may also be used. In the case of the 905-916 (100 metre legs) it is recommended that the 15 metre Intermediate Duty Mast (model 457) and grounding kit be used.

The wire kit includes terylene/copper braid radiating elements, a balun transformer, terminating resistors, support cord and steel ground anchors. Also supplied is a coaxial cable assembly terminated with N type connectors and fitted with a strain relief sleeve.



Model	Description	Frequency	Power
905-901	Broadband Wire Dipole (50 metre legs)	2-30MHz	150 W
905-903	Broadband Wire Dipole (50 metre legs)	2-30MHz	400 W
905-905	Broadband Wire Dipole (50 metre legs)	2-30MHz	500 W
905-904	Broadband Wire Dipole (50 metre legs)	2-30MHz	1 kW
905-916	Broadband Wire Dipole (100 metre legs)	2-30MHz	1 kW
905-908	Broadband Wire Dipole (50 metre legs) with EMP	2-30MHz	150 W
905-906	Broadband Wire Dipole including tubular mast kit (suitable for semi-fixed role months at a time)	2-30MHz	1 kW

RACAL ANTENNAS LTD

First Avenue, Millbrook Trading Estate, Southampton, SO15 0LJ, United Kingdom
tel: +44 (0) 2380 705705 • fax: +44 (0) 2380 701122 • sales@racalantennas.com • www.racalantennas.com
Racal reserve the right to vary in detail from the description and specification in this publication.



Equipment	905-901	905-903	905-904	905-905	905-906	905-908	905-909
	150 W	400 W	1 kW	500 W	1 kW	150 W	1 kW
Coaxial Cable	1	1	1	1	-	1	-
Coaxial Cable Strap	1	1	1	1		1	-
Terminating Resistor Unit	2	2	4	2	4	2	4
Element Assembly	2	2	2	2	2	2	2
Throwing Cord Assembly	1	1	1	1	-	-	-
Ground Picket	2	2	4	2	4	2	5
Ground Picket H/D	2	2	2	2	2	2	2
Element Assembly	2	2	2	2	-	2	-
Earth Spike Assembly	1	1	1	1	-	1	-
Centre Junction (Balun)	1	1	1	1	1	1	1
Carrying Bag	1	1	1	1	4	1	2
Handbook	1	1	1	1	1	1	1
Element Assembly	2	2	4	2	2	-	2
Earth Rod Assembly	-	-	-	-	-	1	-
Emp Protection Assembly	-	-	-	-	-	1	-
Mast Head Assembly	-	-	-	-	-	-	1
Earth Kit	-	-	-	-	1	-	-
Support Mast	*	*	*	*	1	*	*

* Antenna Support Mast not included.

RACAL ANTENNAS LTD

First Avenue, Millbrook Trading Estate, Southampton, SO15 0LJ, United Kingdom
 tel: +44 (0) 2380 705705 • fax: +44 (0) 2380 701122 • sales@racalantennas.com • www.racalantennas.com
 Racal reserve the right to vary in detail from the description and specification in this publication.