



# BROADBAND PROPAGATION

## Antenna Design & Supply

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### MP-100-400 VHF/ UHF Wide-Band Manpack Antenna

The MP-100-400 is a wide-band antenna covering the full 100 MHz to 400 MHz bandwidth. It does not require any external tuning and is ground plane independent. It has high radiation efficiency across its bandwidth. It is designed specifically for wide-band manpack transceivers but is also suited to other mounting situations.

The antenna is supplied as standard with an "N" type female connector but may also be fitted with a variety of other connector/ connection styles according to the customer's requirements.

It has an input impedance of 50 ohms and will connect directly to the RF connector of a manpack radio. Or it may be mounted on other platforms such as vehicles or shelters. Suitable mounting bases are available for these applications.

The radiating elements are high efficiency and it is light-weight and extremely robust in its design and able to withstand the harshest of environmental conditions and mechanical abuse. It is collapsible into two sections for storage and transport.

**\*\*\* Wide-Band Frequency Range \*\*\***

**\*\*\* No Tuning or Adjustment Required \*\*\***

**\*\*\* Light and Rugged Construction \*\*\***

#### Specifications

Frequency range:	100 to 400 MHz
Input Impedance:	50 Ohms
Power Rating:	50 watts CW
VSWR:	better than 3.5:1 Typical
Gain:	-5dBi to +4dBi over band
Polarisation:	Vertical
Radiation pattern:	Azimuth 360 deg, (Omni Directional)
Input Connector:	"N" type (other connectors available) <i>Customer to specify type and gender</i>

Colour:	Matt Black or camouflage green.
Diameter:	12.5 mm
Operating Length:	1500mm
Collapsed Length:	800mm
Weight:	0.25 kg
Operating Temp.	-40°C to +70°C

(Whip can be supplied with other antenna to base attachment formats or threads, and other base styles)

