

Type 3504-100

0.5 Metre Manpack Tape Antenna
100 MHz - 400 MHz

COBHAM

3504-100-DS Issue 1

The most important thing we build is trust

The **3504-100 0.5 Metre Manpack Tape Antennas** has been designed for manpack radio applications, operating in the frequency band 100 MHz to 400 MHz.

This compact antenna is suited for combat conditions where physical restriction on operator and radio is undesirable.

The antenna is constructed from a number of stainless steel tape elements, sheathed in a protective durable sleeve.

The antenna is supplied with an Antenna Matching Unit (AMU) optimised over the full operating band.

The radio interface end of the AMU can be tailored to the radio manufacturer's bulkhead interface.



Electrical Specification

| | |
|-------------------|--|
| Frequency Range | 100 MHz - 400 MHz |
| Gain | ≥ -9 dBi |
| Polarisation | Vertical when mounted vertically |
| Radiation Pattern | Essentially omnidirectional in azimuth |
| Power Rating | 15 W cw (100 MHz - 120 MHz) 20 W cw (120 MHz - 400 MHz) |
| Impedance | 50 ohm (nominal) |
| VSWR | $\leq 3.5:1$ |
| Connector | N Type Male |

Mechanical Specification

| | |
|------------------------|--|
| Height | 0.5 m |
| Weight | 164 g |
| Mounting Configuration | Directly to radio bulkhead connector/interface |

Environmental Specification

| | |
|-------------|--|
| Temperature | Storage: -55°C to $+85^{\circ}\text{C}$ Operational: -40°C to $+70^{\circ}\text{C}$ |
| Humidity | Up to 95% RH up to 55% |

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