# AM-DVB-T/GPS magnetic mount

*Dual-band Magnetic Mobile Antenna - DVB-T+GPS*

This dual-band mobile antenna of Inmak's GPS series of antennas is supplied with a 0 dB gain radiator of PVC coated aluminum. Internally the product is coupled with an active GPS module. The magnetic mounting solution allows for flexibility when choosing an appropriate spot on the vehichle.

The two bands are provided with 5-m-long cables:

- GPS of the RG174 type and can terminate on any connector;
- DVB-T of the 75 Ω cable SIVA C27R type and can terminate with 9.5 mm TV plug connector.

specifications

## MECHANICAL

| | |
|---|---|
| **Weight** | 320 g ± 20 g |
| **Material** | Radiator: PVC coated aluminum<br>Base: steel and polyamide |
| **Color** | Black |
| **Mounting** | Magnetic |
| **Operating Temp.** | -30 to +80°C |

## ORDERING DESIGNATIONS

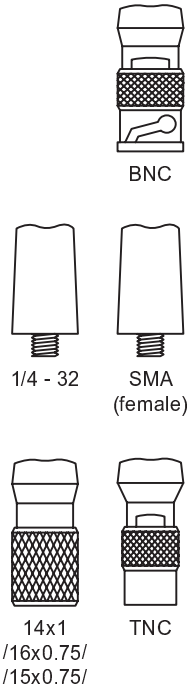
When ordering, please, specify the connectors for both DVB-T and GPS bands.

| ELECTRICAL | DVB-T | GPS |
|---|---|---|
| **Frequency Range** | 470-860 MHz | 1575.42 MHz |
| **SWR** | < 1.5 | < 1.5 |
| **Gain** | 0 dB /2.15 dBi/ | 24 dBi at 2.7V / 26 dBi at 5V |
| **Impedance** | 75 Ω | 50 Ω |
| **Max Power** | 150 W | - |
| **Polarization** | vertical | RHCP |
| **Supply Voltage** | - | 2.7-5 V |
| **Consumption** | - | 12 mA at 2.7V / 26 mA at 5V |
| **Noise Figure** | - | 1.7-2.1 dB |

# CONTENTS

# PA-27

*Helical Antenna in the CB Band*



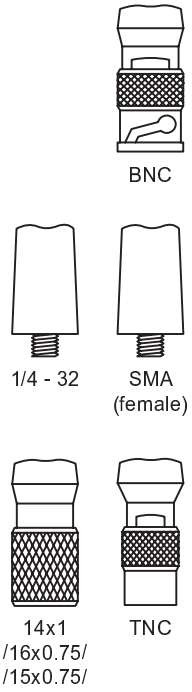

Flexible, conical steel helix moulded in flexible thermoplastic rubber. Optimum performance compared to physical dimensions. Tuned and tasted to ensure minimum SWR and optimum performance. High quality materials in a smooth and slender design. Designed for use with different connectors.

## specifications

| | |
|---|---|
| **Frequency Range** | 27 MHz |
| **Impedance** | 50 Ω |
| **Max. Power** | 25 W |
| **Gain** | 0 dBd |
| **Lenght** | 250 mm |
| **Cover** | PVC mould |

# PA1-B

*Helical Antenna in the 36-68 MHz Band*

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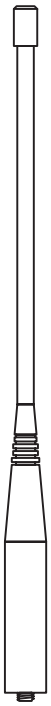
## specifications

| | |
|---|---|
| **Frequency Range** | 36-68 MHz |
| **Impedance** | 50 Ω |
| **Max. Power** | 25 W |
| **Gain** | 0 dBd |
| **Lenght** | 250 mm max. |
| **Cover** | PVC mould |

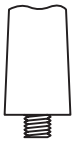
# PA1-BS

*Helical Antenna in the 66-88 MHz Band*



BNC

1/4 - 32



SMA
(female)

14x1
/16x0.75/
/15x0.75/

TNC

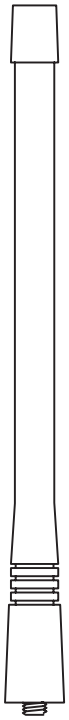
Flexible, conical steel helix moulded in flexible thermoplastic rubber. Optimum performance compared to physical dimensions. Tuned and tasted to ensure minimum SWR and optimum performance. High quality materials in a smooth and slender design. Designed for use with different connectors.

## specifications

| | |
|---|---|
| **Frequency Range** | 66-88 MHz |
| **Impedance** | 50 Ω |
| **Max. Power** | 25 W |
| **Gain** | 0 dBd |
| **Lenght** | 250 mm |
| **Cover** | PVC mould |

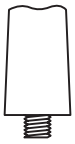
# PA2-M

*Helical Antenna in the 2 m Band*



BNC

1/4 - 32



SMA
(female)

14x1
/16x0.75/
/15x0.75/

TNC

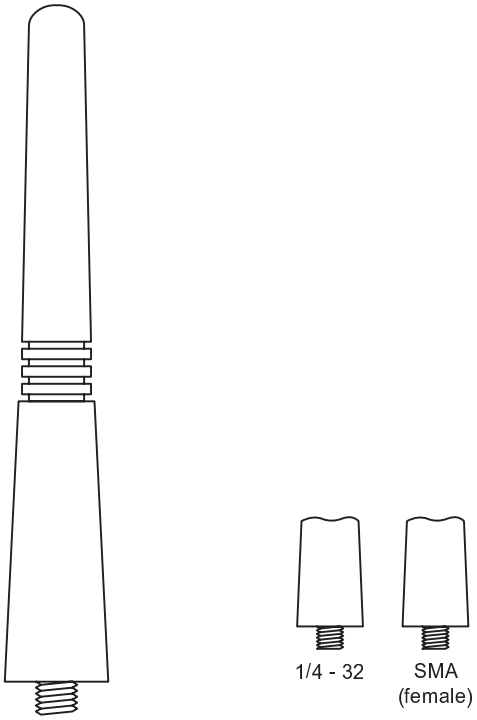
Flexible, conical steel helix moulded in flexible thermoplastic rubber. Optimum performance compared to physical dimensions. Tuned and tasted to ensure minimum SWR and optimum performance. High quality materials in a smooth and slender design. Designed for use with different connectors.

## specifications

| | |
|---|---|
| **Frequency Range** | 130-174 MHz |
| **Impedance** | 50 Ω |
| **Max. Power** | 25 W |
| **Gain** | 0 dBd |
| **Lenght** | 180 mm |
| **Cover** | PVC mould |

# PA2-MTR

*Helical Antenna in the 2 m Band*




Flexible, conical steel helix moulded in flexible thermoplastic rubber. Optimum performance compared to physical dimensions. Tuned and tasted to ensure minimum SWR and optimum performance. High quality materials in a smooth and slender design. Designed for use with different connectors.

## specifications

| | |
|---|---|
| **Frequency Range** | 130-174 MHz |
| **Impedance** | 50 Ω |
| **Max. Power** | 25 W |
| **Gain** | 0 dBd |
| **Lenght** | 95 mm |
| **Cover** | PVC mould |

# PA2-Body

*Helical Antenna in the 2 m Band*

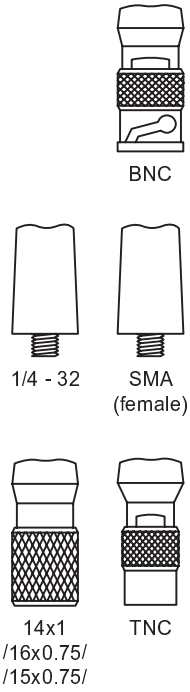
Optimum performance compared to physical dimensions. Tuned and tasted to ensure minimum SWR and optimum performance.

## specifications

| | |
|---|---|
| **Frequency Range** | 130-174 MHz |
| **Impedance** | 50 Ω |
| **Max. Power** | 25 W |
| **Gain** | 0 dBd |
| **Lenght** | 990 mm |

# PA3-M

*Helical Antenna in the 300 MHz Band*



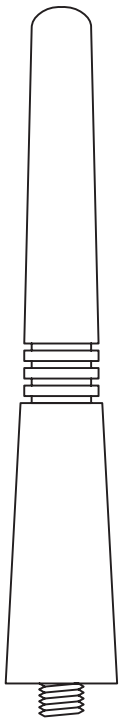

Flexible, conical steel helix moulded in flexible thermoplastic rubber. Optimum performance compared to physical dimensions. Tuned and tasted to ensure minimum SWR and optimum performance. High quality materials in a smooth and slender design. Designed for use with different connectors.

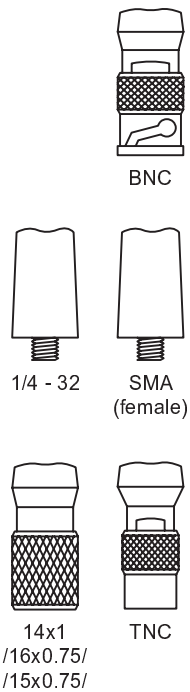
## specifications

| | |
|---|---|
| **Frequency Range** | 300-350 MHz |
| **Impedance** | 50 Ω |
| **Max. Power** | 25 W |
| **Gain** | 0 dBd |
| **Lenght** | 157 mm |
| **Cover** | PVC mould |

# PA3-MTR

*Helical Antenna in the 300 MHz Band*





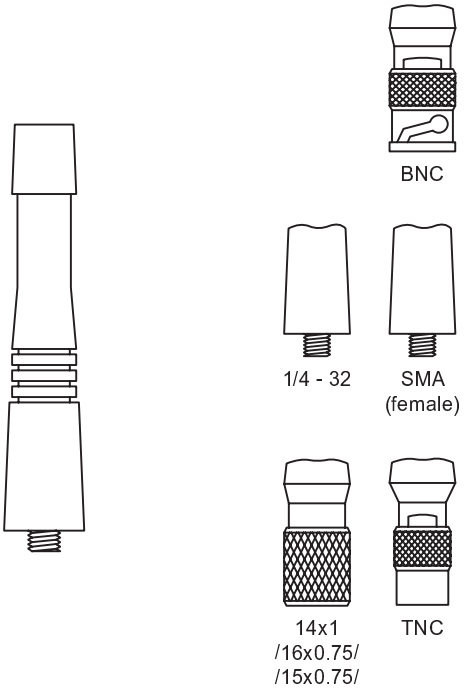

Flexible, conical steel helix moulded in flexible thermoplastic rubber. Optimum performance compared to physical dimensions. Tuned and tasted to ensure minimum SWR and optimum performance. High quality materials in a smooth and slender design. Designed for use with different connectors.

## specifications

| | |
|---|---|
| **Frequency Range** | 300-350 MHz |
| **Impedance** | 50 Ω |
| **Max. Power** | 25 W |
| **Gain** | 0 dBd |
| **Lenght** | 95 mm |
| **Cover** | PVC mould |

# PA70-M short

*Helical Antenna in the 70 cm Band*



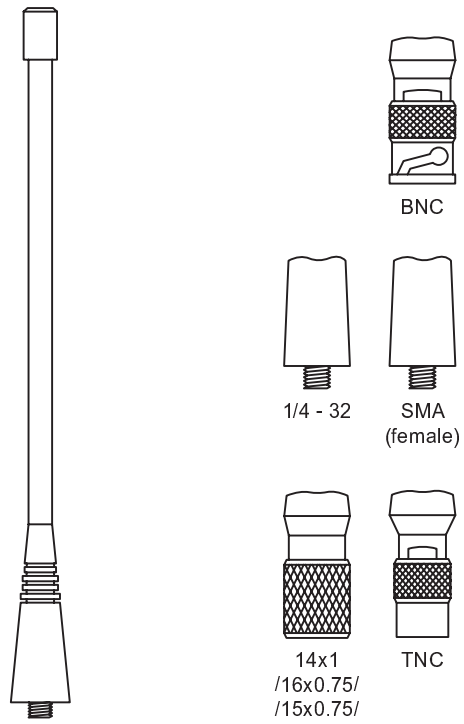

Flexible, conical steel helix moulded in flexible thermoplastic rubber. Optimum performance compared to physical dimensions. Tuned and tasted to ensure minimum SWR and optimum performance. High quality materials in a smooth and slender design. Designed for use with different connectors.

## specifications

| | |
|---|---|
| **Frequency Range** | 400-470 MHz |
| **Impedance** | 50 Ω |
| **Max. Power** | 25 W |
| **Gain** | 0 dBd |
| **Lenght** | 105 mm |
| **Cover** | PVC mould |

# PA70-M long

*Helical Antenna in the 70 cm Band*



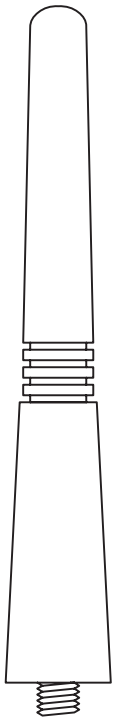

Flexible, conical steel helix moulded in flexible thermoplastic rubber. Optimum performance compared to physical dimensions. Tuned and tasted to ensure minimum SWR and optimum performance. High quality materials in a smooth and slender design. Designed for use with different connectors.

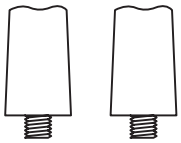
## specifications

| | |
|---|---|
| **Frequency Range** | 400-470 MHz |
| **Impedance** | 50 Ω |
| **Max. Power** | 25 W |
| **Gain** | 0 dBd |
| **Lenght** | 195 mm |
| **Cover** | PVC mould |

# PA70-MTR

*Helical Antenna in the 70 cm Band*






Flexible, conical steel helix moulded in flexible thermoplastic rubber. Optimum performance compared to physical dimensions. Tuned and tasted to ensure minimum SWR and optimum performance. High quality materials in a smooth and slender design. Designed for use with different connectors.

## specifications

| | |
|---|---|
| **Frequency Range** | 400-470 MHz |
| **Impedance** | 50 Ω |
| **Max. Power** | 25 W |
| **Gain** | 0 dBd |
| **Lenght** | 95 mm |
| **Cover** | PVC mould |

# PA900/1800

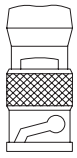
*Helical Antenna for the 900/1800 MHz Band*

## specifications

| | |
|---|---|
| **Frequency Range** | 900/1800 MHz |
| **SWR** | < 1.5 |
| **Gain** | 0 dBd |
| **Impedance** | 50 Ω |
| **Max. Power** | 1 W |
| **Lenght** | 54 mm |
| **Polarization** | Vertical |
| **Connector** | SMA male |
| **Color** | Black |
| **Cover** | Polyamide |

# PA-VHF-GPS

*Helical Antenna in the VHF/GPS Band*



BNC

5/16 - 32

SMA
(female)

14x1
/16x0.75/
/15x0.75/

TNC

Flexible, conical steel helix moulded in flexible thermoplastic rubber. Optimum performance compared to physical dimensions. Tuned and tasted to ensure minimum SWR and optimum performance. High quality materials in a smooth and slender design. Designed for use with different connectors.

## specifications

| | |
|---|---|
| **Frequency Range** | VHF - 144-174 MHz<br>GPS - 1575 MHz |
| **Impedance** | 50 Ω |
| **Max. Power** | 25 W |
| **Gain** | 0 dBd |
| **Lenght** | 157 mm |
| **Cover** | PVC mould |