

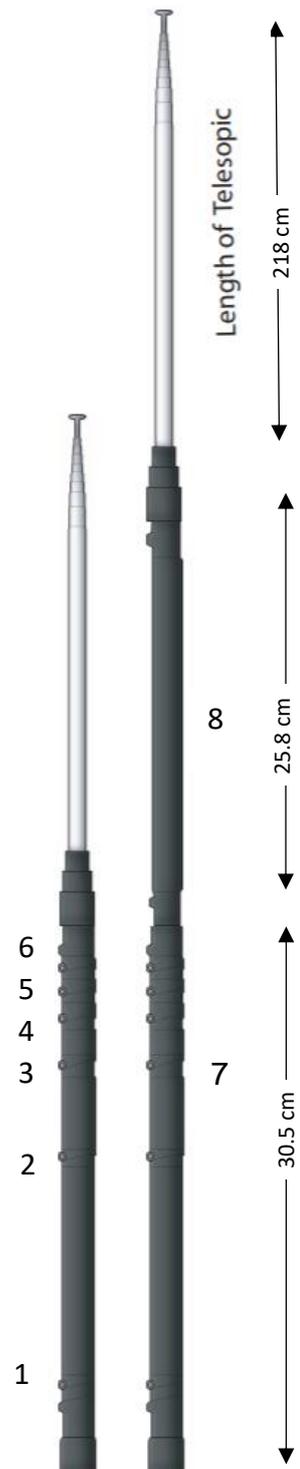


HF-EXPLORER-MINI

10 + 2 Bands Portable Transmitting Antenna
6/10/12/15/17/20/30/40/80/160m + Airband + 2m

| Band center | Frequency (MHz) | Connections | Approximate Length of Telescopic whip |
|-------------|-----------------|--|---------------------------------------|
| 160 m | 1,80 MHz | Main (No.7) +(No.8) coil Jumper not connected | 218 cm |
| 80 m | 3,50 MHz | Main (Nº.7) coil Jumper not connected | 150 cm |
| 40 m | 7.00 MHz | No.1 to No.2 | 128 cm |
| 30 m | 10.00 MHz | No.1 to No.3 | 218 cm |
| 20 m | 14.00 MHz | No.1 to No.3 | 142 cm |
| 17 m | 18.00 MHz | No.1 to No.4 | 188 cm |
| 15 m | 21.00 MHz | No.1 to No.5 | 218 cm |
| 12 m | 24.90 MHz | No.1 to No.5 | 157 cm |
| 10 m | 28.50 MHz | No.1 to No.6 | 218 cm |
| 6 m | 50.00 MHz | No.1 to No.6 | 78 cm |
| 2m/Air Band | 136.00 MHz | No.1 to No.6 | 125 cm |
| | 144.00 MHz | | |

| Power | Gain | Impedance | Length | Weight | Connector |
|-----------------|-------|-----------|--|--------|-----------|
| 120 W (SSB) Max | 0 dbi | 50 Ω | 54~277,5 cm Stainless Steel Whip Length: 218 cm | 330 g | PI-259 |



Notes for using the antenna

To use your **Komunica® HF-EXPLORER-MINI** antenna correctly, please read these instructions thoroughly before use and keep this document on-hand for later reference.

This antenna is intended for use by Radio Amateurs only within their authorised frequency bands. For use on some amateur bands an antenna tuning unit may be required.

Operation using **Komunica®** accessories (see end of document) allow this antenna to be used from a parked car or from a portable location.

Please note:

- The **HF-EXPLORER-MINI** has been designed as a stationary antenna and is not designed for use on a moving vehicle.
- Its lightness and small packed size make it easy to carry. It is an ideal antenna for use with a Portable Station.
- Your **Komunica® HF-EXPLORER-MINI** antenna operates over a Wide Frequency Range (MF/HF/VHF) between 1.8 & 50MHz but also can be used for the 2 metre & Air Bands.
- To use your **Komunica® HF-EXPLORER-MINI** with the most flexibility it is recommended to use an Antenna Coupler (ATU).
- Do not leave your **Komunica® HF-EXPLORER-MINI** permanently installed or use as a fixed station antenna as it is not designed for operation in storms or extremely cold temperatures for long periods.
- During transmission, never touch the antenna. As it might cause electric shock or RF burns.
- Due to the extended length please take special care not to hit your or other people when assembling your antenna.
- Always use this antenna properly and in a responsible manner.
- Komunica PWR® reserves the right to modify the design and specifications of this antenna, without prior notice.

Adjustment recommendations:

The suggested lengths given for each frequency band in the table are indicative.

A suitable counterpoise wire or ground plane is required to operate this antenna. The optimal length for the ground plane radial wires should be less than a 1/4 wave on the band in use (i.e. $180 \div \text{frequency (in MHz)} = \text{length in m}$).

Adjust the antenna for minimum SWR by moving the telescopic rod shortening or lengthening the sections until you obtain the optimal setting for each band. Use of an SWR bridge or Antenna Analyser is recommended.

Connect the jumper between socket No.1 and No.6 before adjusting the telescopic whip when tuning it for 2 metres or air band use.

The measurements suggested for the **Komunica® HF-EXPLORER-MINI** are indicative and will change for each different installation. You will need to readjust the telescopic whip to optimize the performance of this antenna when you set up in a new location.

Use of antenna on 160m:

In the case of 160m adjustment may be required depending upon where in the 160m band you intend to operate. Tests with the antenna on a 15 cm ø magnetic base on a car roof gave the following settings:

- | | | |
|---|----------|-------------------|
| 1. Telescopic antenna rod fully extended: | 1.77 MHz | – SWR= 1.0 → 57 Ω |
| 2. Telescopic rod length reduced by 1 section: | 1.74 MHz | – SWR= 1.6 |
| 3. Telescopic rod length reduced by 2 sections: | 1.82 MHz | – SWR= 2.0 |

HF-EXPLORER-SERIES Accessories:

TRIPOD-KIT



TRIPLE-MAG



HF-MAG



Errors and omissions excepted (E&OE)

