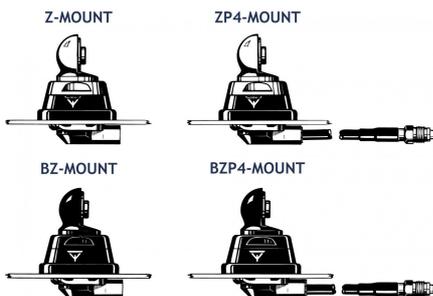
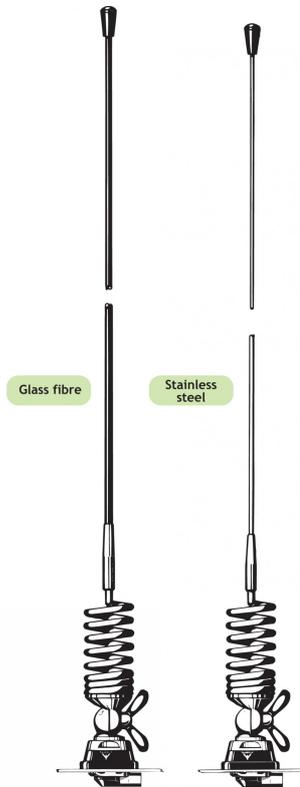


# MH 3-Z

## 5/8 λ Mobile Antenna with Shock Spring for the 160 MHz Band

### DESCRIPTION

- Sturdy, 3 dB gain, 5/8 λ antenna in professional quality.
- Available with glass fiber or stainless steel whip.
- Stainless steel Z-mount with ball-joint and wing screw whip-fastening system.
- Available with bright or black-chromed metal parts (mount and whip):
  - MH 3-Z...: Bright version
  - MH 3-BZ...: Black version
- Simple mounting exclusively with access from the outside. Models with roof thickness from 2 mm to 7.5 mm mounting from the inside.
- Choice between two connection principles:
  - Z-mount: FME-connection (supplied without cable).
  - ZP4-mount: Permanently attached 4 m cable terminated with FME-connector.



### ORDERING DESIGNATIONS

| TYPE WHIP<br>STAINLESS<br>STEEL | PRODUCT<br>NO. | TYPE WHIP<br>GLASS<br>FIBER | PRODUCT<br>NO. | MOUNT<br>VERSION                                |
|---------------------------------|----------------|-----------------------------|----------------|---|
| MH 3-ZR                         | 130000751      | MH 3-Z                      | 130000743      | Z-mount with FME-system BRIGHT                  |
| MH 3-BZR                        | 130000758      | MH 3-BZ                     | 130000747      | BZ-mount with FME-system BLACK                  |
| MH 3-ZP4R                       | 130000753      | MH 3-ZP4                    | 130000745      | ZP4-mount with 4 m cable + FME-connector BRIGHT |
| MH 3-BZP4R                      | 130000752      | MH 3-BZP4                   | 130000746      | BZP4-mount with 4 m cable + FME-connector BLACK |

### SPECIFICATIONS

| ELECTRICAL                      |   |
|---------------------------------|---|
| MODEL                           | MH 3-Z  |
| ANTENNA TYPE                    | 5/8 λ mobile whip antenna   |
| FREQUENCY                       | Tunable by cutting within: 144...175 MHz  |
| IMPEDANCE                       | Nom. 50 Ω   |
| POLARIZATION                    | Vertical  |
| GAIN                            | 3 dB (acc. to EIA RS-329-1)   |
| BANDWIDTH                       | 4 - 5 MHz @ SWR ≤ 2.0   |
| SWR                             | ≤ 1.3 @ f.res.  |
| MAX. POWER                      | 150 W   |
| MECHANICAL                      |   |
| MATERIALS                       | <b>Whip:</b><br>Conical glass fiber or stainless steel<br>Chromed brass<br><b>Spring:</b><br>Stainless steel<br><b>Mount:</b><br>Chromed brass<br>Weather- and shockproof plastics<br>Stainless steel |
| RECOMMENDED INSTALLATION TORQUE | 7.5 ± 1 Nm  |
| COLOUR                          | Bright or black, see above  |
| HEIGHT                          | Approx. 1.38 m  |
| WEIGHT                          | Z-version: Approx. 360 g<br>ZP4-version: Approx. 510 g  |
| MOUNTING                        | ø21 mm dia. hole (For roof thickness 2 mm up to 7.5 mm mounting hole should be ø22 mm dia.)   |
| ROOF THICKNESS                  | Max. 2.0 mm (Models up to 7.5 mm on request)  |

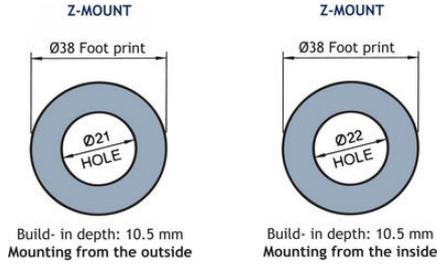
## INSTALLATION

This antenna is provided with type Z-mount. The whip is fastened to the mount by means of our standard ball-joint and wing screw system. The adjustable ball-joint ensures that the whip can always be mounted in a vertical position independent of the angle of the installation spot.

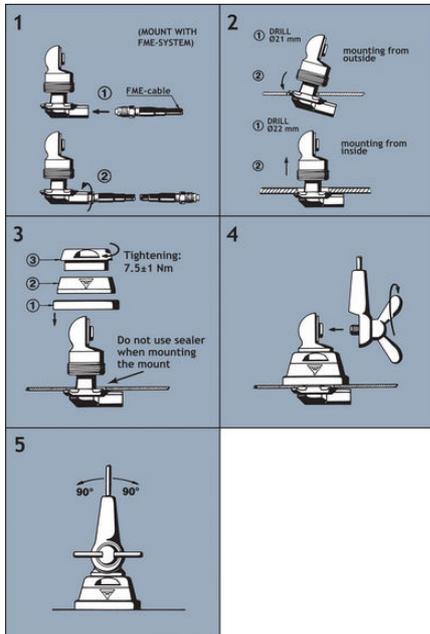
The Z-mount is particularly well suited for mounting on car-roofs because of its ability to be installed exclusively with access from the outside. The Z-Mount for roof thickness from 2 mm to 7.5 mm must be mounted from the inside.

However, the antenna can be installed anywhere on the car, as the Z-mount is equally well suited for mounting on e.g. trunk or wing.

### 1. INSTALLATION DIMENSIONS



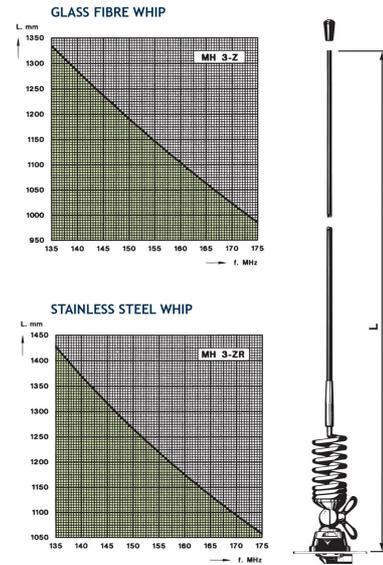
### 2. INSTALLATION STEPS



Do not use sealer on rubber gasket or other places.

### 3. TUNING

The antenna should always be tuned using an SWR-meter. The cutting diagrams below serve as a guide for this procedure.



PROCOM A/S reserve the right to amend specifications without prior notice.

10/10/13