

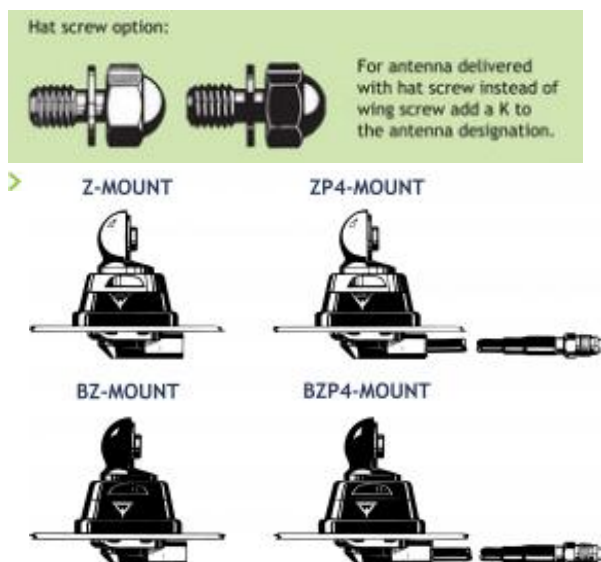
## ML 2-Z

### $\frac{1}{4}$ $\lambda$ Mobile Antenne for the 80 MHz Band

- Sturdy, general-purpose  $\frac{1}{4}$   $\lambda$  antenna in professional quality.
- Available with glass fiber or stainless steel whip.

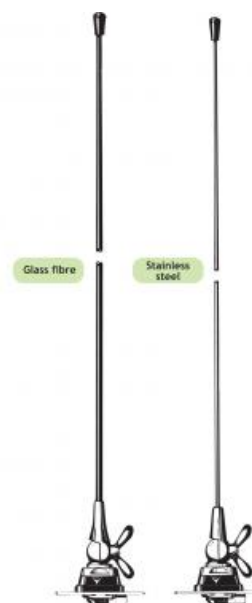
#### DESCRIPTION

- Stainless steel Z-mount with ball-joint and wing screw whip-fastening system.
- Available with bright or black-chromed metal parts (mount and whip):
  - ML 2-Z...: Bright version
  - ML 2-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<br>WHIP | PRODUCT NO. | TYPE<br>WHIP    | PRODUCT NO. | MOUNT                                             |
|--------------|-------------|-----------------|-------------|---------------------------------------------------|
| Glass fiber  |             | Stainless steel |             |                                                   |
| ML 2-Z       | 130000639   | ML 2-ZR         | 130000643   | Z-mount with FME-system BRIGHT                    |
| ML 2-BZ      | 130000638   | ML 2-BZR        | 130000650   | BZ-mount with FME-system BLACK                    |
| ML 2-ZP4     | 130000642   | ML 2-ZP4R       | 130000646   | ZP4-mount with 4 m cable and FME-connector BRIGHT |
| ML 2-BZP4    | 130000641   | ML 2-BZP4R      | 130000648   | BZP4-mount with 4 m cable and FME-connector BLACK |



#### SPECIFICATIONS

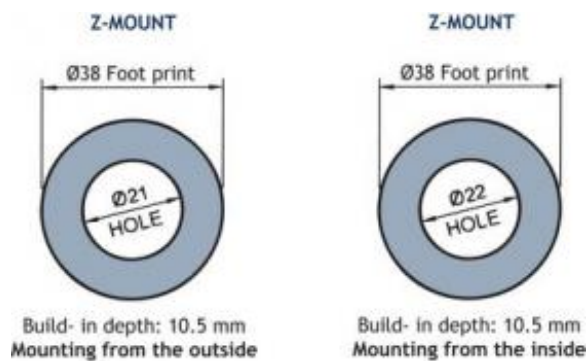
| ELECTRICAL                            |                                                                                                                                                    |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| MODEL                                 | ML 2-Z                                                                                                                                             |
| ANTENNA TYPE                          | $\frac{1}{4}$ $\lambda$ mobile whip antenna                                                                                                        |
| FREQUENCY                             | Tunable by cutting within: 66...88 MHz<br>(Also applicable: 88...175 MHz)                                                                          |
| IMPEDANCE                             | Nom. 50 $\Omega$                                                                                                                                   |
| POLARIZATION                          | Vertical                                                                                                                                           |
| GAIN                                  | 0 dB (acc. to EIA RS-329-1)                                                                                                                        |
| BANDWIDTH                             | $\geq 8$ MHz @ SWR $\leq 2.0$                                                                                                                      |
| SWR                                   | $\leq 1.3$ @ f. res.                                                                                                                               |
| MAX. POWER                            | 250 W                                                                                                                                              |
| MECHANICAL                            |                                                                                                                                                    |
| MATERIALS                             | Whip:<br>Conical glass fiber or stainless steel<br>Chromed brass<br>Mount:<br>Chromed brass<br>Weather- and shockproof plastics<br>Stainless steel |
| RECOMMENDED<br>INSTALLATION<br>TORQUE | 7.5 $\pm$ 1 Nm                                                                                                                                     |
| COLOUR                                | Black or bright, see above                                                                                                                         |
| HEIGHT                                | Approx. 1.1 m                                                                                                                                      |
| WEIGHT                                | Z-version: Approx. 170 g<br>ZP4-version: Approx. 330 g                                                                                             |
| MOUNTING                              | $\varnothing 21$ mm dia. hole<br>(For roof thickness 2 mm up to 7.5 mm<br>mounting hole should be $\varnothing 22$ mm dia.)                        |
| ROOF THICKNESS                        | Max. 2.0 mm<br>(Models up to 7.5 mm on request)                                                                                                    |

## INSTALLATION

This antenna is supplied 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.

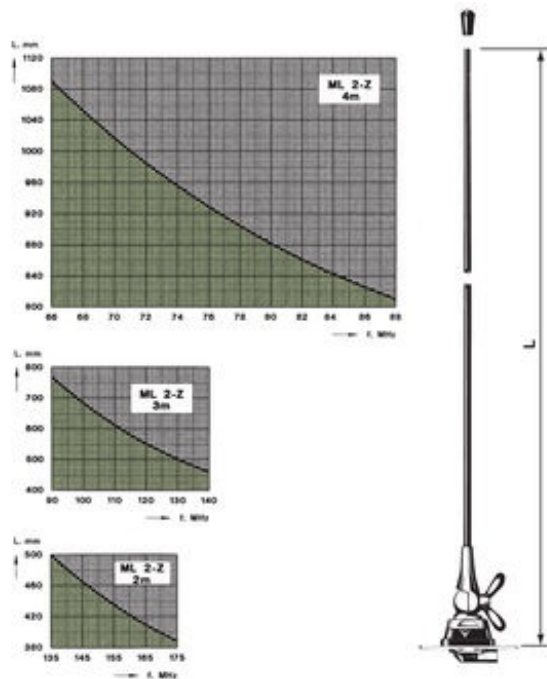
### 1. INSTALLATION DIMENSIONS



### 3. TUNING

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

### GLASS FIBRE WHIP



### STAINLESS STEEL WHIP

