

# ML 1-ZG

# ¼ λ Mobile Antenna with Shock Spring 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 ZG-mount with M8 x 1-thread whip-fastening system.
- Simple mounting exclusively with access from the outside.
- Choice between two connection principles: ZG-mount:
  - FME-connection (supplied without cable).
  - ZGP4-mount: Permanently attached 4 m cable terminated with FME-connector.



### ORDERING DESIGNATIONS

| TYPE WHIP<br>Glass fiber | PRODUCT NO. | TYPE<br>WHIP<br>Stainless steel | PRODUCT NO. | MOUNT VERSION                                  |
|--------------------------|-------------|---------------------------------|-------------|--|
| ML 1-ZG                  | 130000609   | ML 1-ZGR                        | 130000611   | ZG-mount with<br>FME-system                    |
| ML 1-<br>ZGP4            | 130000610   | ML 1-ZGP4R                      | 130000612   | ZGP4-mount with<br>4 m cable and FME-connector |



#### **SPECIFICATIONS**

| ELECTRICAL   |   |  |  |  |
|--------------|---|--|--|--|
| MODEL        | ML 1-ZG   |  |  |  |
| ANTENNA TYPE | ¼ λ mobile whip antenna   |  |  |  |
| FREQUENCY    | Tunable by cutting within: 6688 MHz<br>(Also applicable: 88175 MHz) |  |  |  |
| IMPEDANCE    | Nom. 50 Ω   |  |  |  |
| POLARIZATION | Vertical  |  |  |  |
| GAIN         | 0 dB (acc. to EIA RS-329-1)   |  |  |  |
| BANDWIDTH    | ≥ 8 MHz @ SWR ≤ 2.0   |  |  |  |
| SWR          | ≤ 1.3 @ f. res.   |  |  |  |
| MAX. POWER   | 250 W   |  |  |  |

| MECHANICAL                      |   |  |  |
|---------------------------------|---|--|--|
| MATERIALS                       | Whip: Conical glass fiber or black-chromed stainless steel. Black-chromed brass Spring: Black-chromed stainless steel Mount: Black-chromed brass Weather- and shockproof plastics Stainless steel |  |  |
| RECOMMENDED INSTALLATION TORQUE | 7.5 ± 1 Nm  |  |  |
| COLOUR                          | Black   |  |  |
| HEIGHT                          | Approx. 1.1 m   |  |  |
| WEIGHT                          | ZG-version: Approx. 210 g<br>ZGP4-version: Approx. 360 g  |  |  |
| MOUNTING                        | 21 mm dia. hole   |  |  |



#### INSTALLATION

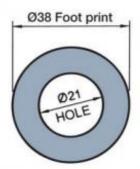
This antenna is supplied with our type ZG-mount for mounting from the outside in a 21 mm dia. hole on horizontal surfaces as e.g. roof top or trunk lid.

The ZG-mount is provided with an M8 x 1 thread mount system. This construction meets the demand for a low-profile mobile mount with a slim appearance and with protection against theft of the antenna whip.

When cleaning the car in automatic washing machines, the whip is easily removed using a spanner size 12 mm. The whip is refitted again by screwing it onto the M8  $\times$  1 thread stud and tightening it with the spanner.

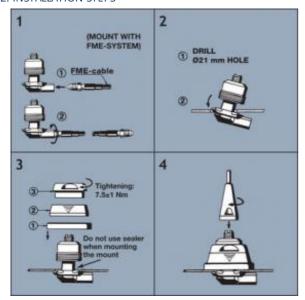
### 1. INSTALLATION DIMENSIONS

# ZG-MOUNT



Build- in depth: 10.5 mm

## 2. INSTALLATION STEPS



Do not use sealer on rubber gasket or other places.

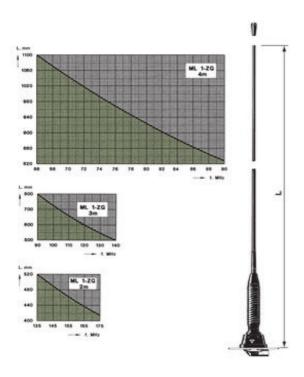
#### 3. TUNING

The antenna should always be tuned using an SWR-meter.

The cutting diagrams below serve as a guide for this procedure.

**GLASS FIBRE WHIP** 





## STAINLESS STEEL WHIP

