

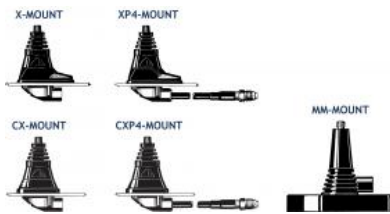
## MU 7-X/...

### Unity Gain $\frac{1}{4} \lambda$ Mobile Antenna for the 450 MHz Band

- Silicone covered flexible steel wire whip.
- MU 7-X/s covers 370 – 410 MHz
- MU 7-X/l covers 406 – 440 MHz
- MU 7-X/h covers 430 – 470 MHz
- no tuning required.

#### DESCRIPTION

- Stainless steel X-mount with M6-thread whip-fastening system.
- Simple mounting exclusively with access from the outside.
- Models available with X-mount (oblong), CX-mount (circular) and MM-mount (magnetic).
- Choice between two connection principles:
  - X-mount, MM-mount: FME-connection (supplied without cable).
  - XP4-mount: Permanently attached 4 m cable terminated with FME-connector.



## ORDERING DESIGNATIONS

| TYPE   | PRODUCT NO. | FREQUENCY RANGE |
|--|-------------|-----------------|
| X-mount (oblong) with FME-system                       |             |                 |
| MU 7-X/s   | 130001076   | 370 - 410 MHz   |
| MU 7-X/l   | 130001070   | 406 - 440 MHz   |
| MU 7-X/h   | 130001082   | 430 - 470 MHz   |
| CX-mount (circular) with FME-system                    |             |                 |
| MU 7-CX/s  | 130001066   | 370 - 410 MHz   |
| MU 7-CX/l  | 130001071   | 406 - 440 MHz   |
| MU 7-CX/h  | 130001083   | 430 - 470 MHz   |
| XP4-mount (oblong) with 4 m cable and FME-connector    |             |                 |
| MU 7-XP4/s   | 130001080   | 370 - 410 MHz   |
| MU 7-XP4/l   | 130001072   | 406 - 440 MHz   |
| MU 7-XP4/h   | 130001073   | 430 - 470 MHz   |
| CXP4-mount (circular) with 4 m cable and FME-connector |             |                 |
| MU 7-CXP4/s  | 130001065   | 370 - 410 MHz   |
| MU 7-CXP4/l  | 130001068   | 406 - 440 MHz   |
| MU 7-CXP4/h  | 130001074   | 430 - 470 MHz   |
| MM-mount (magnetic) with FME-system                    |             |                 |
| MU 7-MM/s  | 130001060   | 370 - 410 MHz   |
| MU 7-MM/l  | 130001061   | 406 - 440 MHz   |
| MU 7-MM/h  | 130001062   | 430 - 470 MHz   |

## SPECIFICATIONS

| ELECTRICAL   |   |
|--------------|---|
| MODEL        | MU 7-X/...                                |
| ANTENNA TYPE | $\frac{1}{4} \lambda$ mobile whip antenna |
| FREQUENCY    | 450 MHz-band covered by three models      |
| IMPEDANCE    | Nom. 50 $\Omega$                          |
| POLARIZATION | Vertical                                  |
| GAIN         | 0 dB (acc. to EIA RS-329-1)               |
| BANDWIDTH    | $\geq 45$ MHz @ SWR $\leq 1.5$            |
| SWR          | $\leq 1.2$ @ f. res.                      |
| MAX. POWER   | 100 W                                     |

| MECHANICAL                      |   |
|---------------------------------|---|
| MATERIALS                       | Whip:<br>Steel wire covered with silicone tubing<br>Black-chromed brass<br>Mount:<br>Black-chromed brass<br>Weather- and shockproof plastics<br>Stainless steel |
| RECOMMENDED INSTALLATION TORQUE | 4 ± 1 Nm  |
| COLOUR                          | Black   |
| HEIGHT                          | Approx. 175 mm  |
| WEIGHT                          | X-version: Approx. 65 g<br>XP4-version: Approx. 205 g<br>MM-version: Approx. 275 g  |
| MOUNTING                        | 18 mm dia. hole   |
| ENVIRONMENT                     |   |
| TEMP. RANGE                     | -40° C → +85° C   |

## INSTALLATION

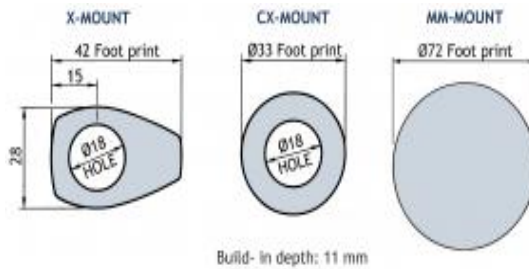
This antenna should be mounted on the car roof to ensure best omnidirectional coverage.

Mounting can take place exclusively with access from the outside when drilling an 18 mm dia. hole. Mounting can take place from the inside by drilling a 14 mm dia. hole. When mounting in a 14 mm dia. hole, remove the bottom plastic ring of the packing gasket with a sharp cutter.

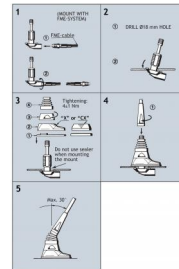
When cleaning the car in car-washing machines, remove the whip using a spanner, size 9 mm. After wash, refit the whip and tighten it lightly with the spanner.

The MiniMag (abbreviated: MM) is a small, lightweight magnetic mount with a high attaching effect. A silicone layer applied to the contact surface protects the car roof and ensures maximum friction.

## 1. INSTALLATION DIMENSIONS



## 2. INSTALLATION STEP



Do not use sealer on rubber gasket or other places.

## 3. TUNING

The antenna is delivered factory-tuned and requires no further tuning.

## PLEASE NOTE

For safety reasons, when using the MU 7-MM, car speed must not exceed 180 km/h.