

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

DESCRIPTION

- > 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.
- > 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.

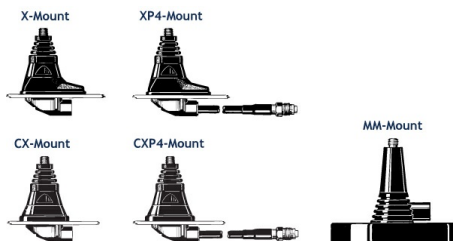


ORDERING

| Type | Product No. | Frequency |
|-------------|-------------|---------------|
| MU 7-X/s | 130001076 | 370 - 410 MHz |
| MU 7-X/l | 130001070 | 406 - 440 MHz |
| MU 7-X/h | 130001082 | 430 - 470 MHz |
| MU 7-CX/s | 130001066 | 370 - 410 MHz |
| MU 7-CX/l | 130001071 | 406 - 440 MHz |
| MU 7-CX/h | 130001083 | 430 - 470 MHz |
| MU 7-XP4/s | 130001080 | 370 - 410 MHz |
| MU 7-XP4/l | 130001072 | 406 - 440 MHz |
| MU 7-XP4/h | 130001073 | 430 - 470 MHz |
| MU 7-CXP4/s | 130001065 | 370 - 410 MHz |
| MU 7-CXP4/l | 130001068 | 406 - 440 MHz |
| MU 7-CXP4/h | 130001074 | 430 - 470 MHz |
| MU 7-MM/s | 130001060 | 370 - 410 MHz |
| MU 7-MM/l | 130001061 | 406 - 440 MHz |
| MU 7-MM/h | 130001062 | 430 - 470 MHz |

MOUNTS

The whip is compatible with all below mounts.



SPECIFICATIONS

| Electrical | |
|-----------------------------|--|
| Model | MU 7-X/... |
| Frequency | 450 MHz-band covered by three models |
| Antenna Type | Mobile whip antenna |
| Max. Input Power | 100 W |
| Polarisation | Vertical |
| Impedance | 50 Ω |
| VSWR | ≤ 1.2 @ f.res. |
| Bandwidth | ≥ 45 MHz @ ≤ 1.5 |
| Gain (EIA RS-329-1) | 0 dB |
| Mechanical | |
| Materials | Whip: Steel wire covered with silicone tubing, Black-chromed brass Mount: Black-chromed brass Weather- and shockproof plastics Stainless steel |
| Installation Torque | 4 +/- 1 Nm |
| Colour | Black |
| Height | Approx. 175 mm / 6.89 in. |
| Weight | X-version: Approx. 65 g XP4-version: Approx. 205 g MM-version: Approx. 275 g |
| Mounting | 18 mm dia. hole / 0,70 in. |
| Environmental | |
| Operating Temperature Range | -40°C to +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.

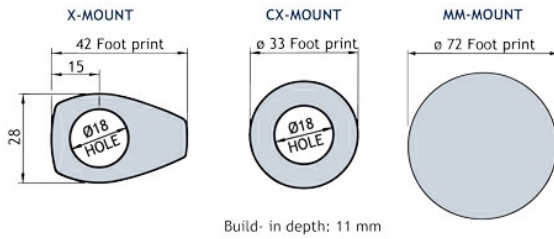
3. TUNING

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

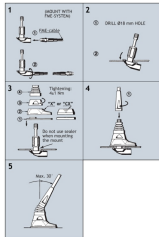
PLEASE NOTE

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

1. INSTALLATION DIMENSIONS



2. INSTALLATION STEP



Do not use sealer on rubber gasket or other places.