

Colinear 3 dB Mobile Antenna for the 23 cm Amateur
Band: 1240 - 1300 MHz

DESCRIPTION

- > 3 dB colinear whip comprising a $\frac{1}{4} \lambda$ section, a phasing coil and a $\frac{1}{4} \lambda$ section.
- > All materials in top professional quality.
- > Broadband-performance 1240 - 1300 MHz – no tuning required.
- > Stainless steel X-mount with M6-thread whip-fastening system.
- > Simple mounting in an 18 mm hole with access from the outside only.
- > 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 low-loss RG 58 cable terminated with FME-connector.



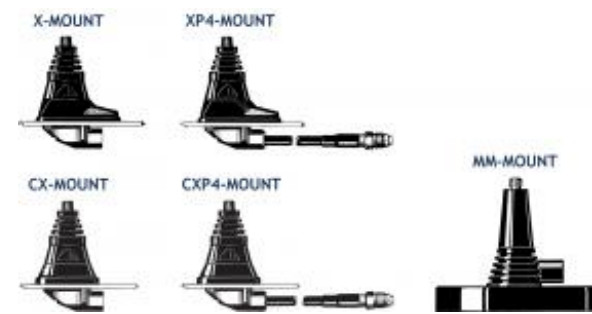
ORDERING

| Type | Product No. | Description |
|--------------|-------------|---|
| MU 23-3-X | 130001259 | X-mount (oblong) with FME-system |
| MU 23-3-CX | 130001261 | CX-mount (circular) with FME-system + FME-connector |
| MU 23-3-XP4 | 130001260 | XP4-mount (oblong) with 4 m cable + FME-connector |
| MU 23-3-CXP4 | 130001262 | CXP4-mount (circular) with 4 m cable |
| MU 23-3-MM | 130001264 | MM-mount (magnetic) with FME-system |

SPECIFICATIONS

| Electrical | |
|---------------------|--|
| Model | MU 23-3-X |
| Frequency | 23 cm amateur band: 1240 - 1300 MHz |
| Antenna Type | Colinear mobile antenna |
| Max. Input Power | 40 W |
| Polarisation | Vertical |
| Impedance | 50 Ω |
| Gain (EIA RS-329-1) | 3 dB |
| Mechanical | |
| Materials | Whip: Black-chromed stainless steel and brass Durable plastics Mount: Black-chromed brass Weather- and shockproof plastics Stainless steel |
| Installation Torque | 4 +/- 1 Nm |
| Colour | Black |
| Height | 220 mm / 8.66 in. |
| Weight | X-version: Approx. 60 g XP4-version: Approx. 200 g MM-version: Approx. 230 g |
| Mounting | 18 mm dia. hole |

ADDITIONAL DATA



FME-SYSTEM ACCESSORIES

| FME-CABLES | |
|----------------|------------|
| TYPE | LENGTH |
| 1 m FME | 1 m |
| 2 m FME | 2 m |
| 3 m FME | 3 m |
| 4 m FME | 4 m |
| 5 m FME | 5 m |
| 6 m FME | 6 m |
| 4 m FME-white | 4 m white |
| 6 m FME-white | 6 m white |
| 12 m FME-white | 12 m white |
| 18 m FME-white | 18 m white |

| FME-CONNECTORS | |
|----------------|--------------|
| TYPE | CONNECTOR |
| FME-FME | FME-FME |
| FME-P | Prolongation |
| FME-N | N |
| FME-FSMA | FSMA |
| FME-BNC | BNC |
| FME-TNC | TNC |
| FME-UHF | UHF |
| FME-MUHF | Mini-UHF |
| FME-EMUHF | Elbow-MUHF |
| FME-EBNC | Elbow-BNC |
| FME-ETNC | Elbow-TNC |
| FME-SMA | SMA |

For further information about other types of FME-cables and FME-connectors, please compare the cable and connector data sheets under accessories in our catalogue.

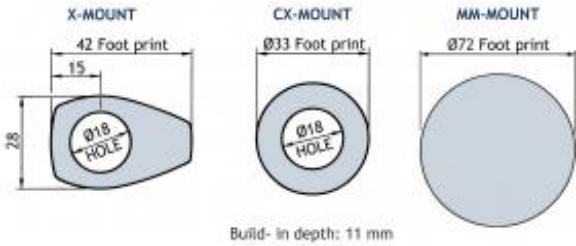
INSTALLATION

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

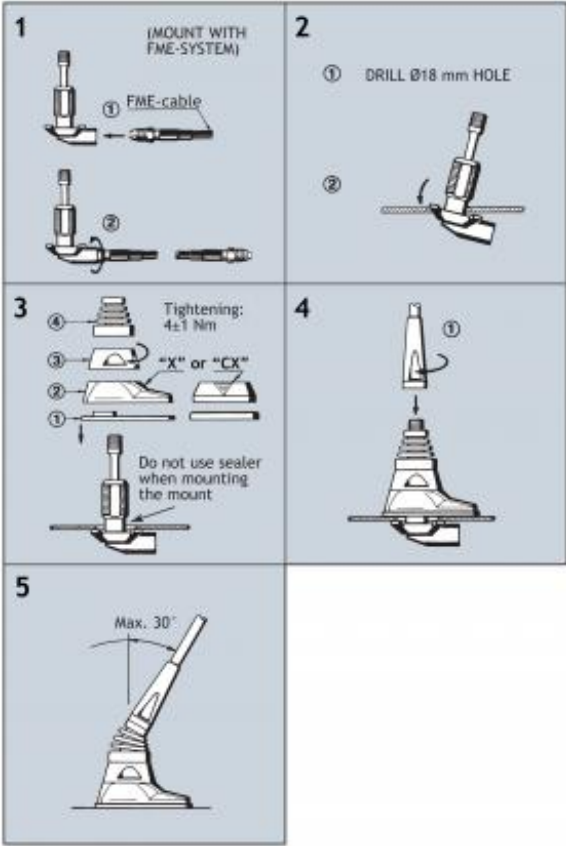
Mounting can take place exclusively with access from the outside when drilling an 18 mm dia. hole. Mounting can take place from the inside by drilling a 14 mm dia. hole. When mounting in a 14 mm dia. hole, remove the bottom plastic ring of the packing gasket with a sharp cutter.

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, light-weight magnetic mount with a high attaching effect. A silicone layer applied to the contact surface protects the car roof and ensures maximum friction.

INSTALLATION DIMENSIONS



INSTALLATION STEPS



TUNING

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

PLEASE NOTE

For safety reasons

1. When using the MU 23-3-MM, car speed must not exceed 130 km/h.
2. If operating the MM-mount with other whips, whip length must never exceed 320 mm, and utilizing this maximum length, car speed must not exceed 115 km/h.

