

MU 11-X/...

Colinear 4 dB Mobile Antenna for the 450 MHz Band

PROCOM

DESCRIPTION:

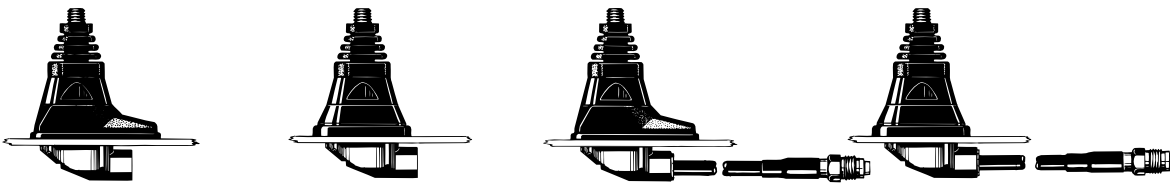
- ★ Encapsulated phasing coil.
- ★ Black-chromed, stainless steel whip.
- ★ Choice between general purpose tunable models and permanently tuned models for cellular networks.
- ★ Stainless steel X-mount with M6-thread whip-fastening system.
- ★ Simple mounting exclusively with access from the outside.
- ★ Models available with X-mount (oblong) and CX-mount (circular).
- ★ Choice between two connection principles:
 - ★ X-mount : FME-connection (supplied without cable).
 - ★ XP4-mount: Permanently attached 4 m cable terminated with FME-connector.

X-Mount

CX-Mount

XP4-Mount

CXP4-Mount



SPECIFICATIONS:

| ELECTRICAL | |
|---------------------------------|--|
| MODEL | MU 11-X/... |
| ANTENNA TYPE | Colinear stainless steel whip mobile antenna |
| FREQUENCY | 450 MHz-band covered by four models |
| IMPEDANCE | Nom. 50 Ω |
| POLARISATION | Vertical |
| GAIN | 4 dB (acc. to EIA RS-329-1) |
| BAND WIDTH | ≥ 20 MHz @ SWR ≤ 1.5 |
| SWR | ≤ 1.3 @ f. res. |
| MAX. POWER | 100 watts |
| MECHANICAL | |
| MATERIALS | Whip: Black-chromed stainless steel and brass Durable plastics Mount: Black chromed brass Environment-proof plastics Stainless steel |
| RECOMMENDED INSTALLATION TORQUE | 4 ± 1 Nm |
| COLOUR | Black |
| HEIGHT | Approx. 60 cm (dep. on freq.) |
| WEIGHT | X-version : Approx. 160 g XP4-version : Approx. 300 g |
| MOUNTING | 18 mm dia. hole |

To help selecting the correct model for a specific cellular network, please consult the survey of cellular network frequencies under USEFUL DATA in our catalogues.

All whips are compatible with all mounts.



ORDERING DESIGNATIONS:

| MOUNT VERSION | X-mount (oblong) with FME-system | CX-mount (circular) with FME-system | XP4-mount (oblong) with 4 m cable + FME-connector | CXP4-mount (circular) with 4 m cable + FME-connector |
|-----------------|--|-------------------------------------|---|--|
| TUNING RANGE | Models for general application – tunable with adjustment disc: | | | |
| 380...410 MHz | MU 11-X/s | MU 11-CX/s | MU 11-XP4/s | MU 11-CXP4/s |
| 406...430 MHz | MU 11-X/f | MU 11-CX/f | MU 11-XP4/f | MU 11-CXP4/f |
| 420...450 MHz | MU 11-X/l | MU 11-CX/l | MU 11-XP4/l | MU 11-CXP4/l |
| 440...470 MHz | MU 11-X/h | MU 11-CX/h | MU 11-XP4/h | MU 11-CXP4/h |
| FREQUENCY RANGE | Models for cellular systems – pretuned, without adjustment disc: | | | |
| 414-430 MHz | MU 11-X/CEL4 | MU 11-CX/CEL4 | MU 11-XP4/CEL4 | MU 11-CXP4/CEL4 |
| 425-440 MHz | MU 11-X/CEL3 | MU 11-CX/CEL3 | MU 11-XP4/CEL3 | MU 11-CXP4/CEL3 |
| 440-455 MHz | MU 11-X/CEL2 | MU 11-CX/CEL2 | MU 11-XP4/CEL2 | MU 11-CXP4/CEL2 |
| 450-470 MHz | MU 11-X/CEL1 | MU 11-CX/CEL1 | MU 11-XP4/CEL1 | MU 11-CXP4/CEL1 |

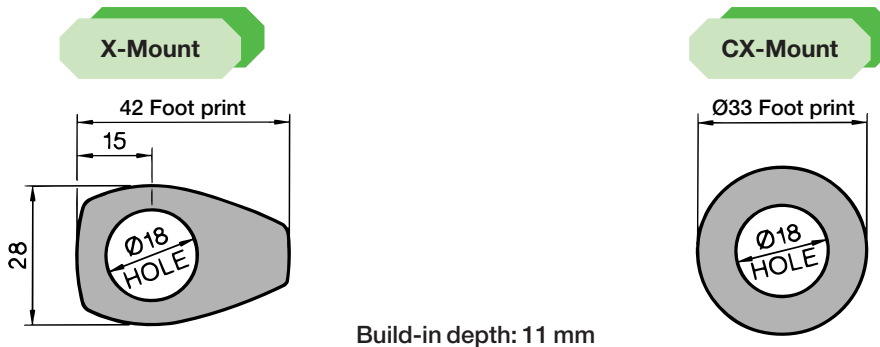
PROCOM A/S reserve the right to amend specifications without prior notice.

MU 11-X/... Installation

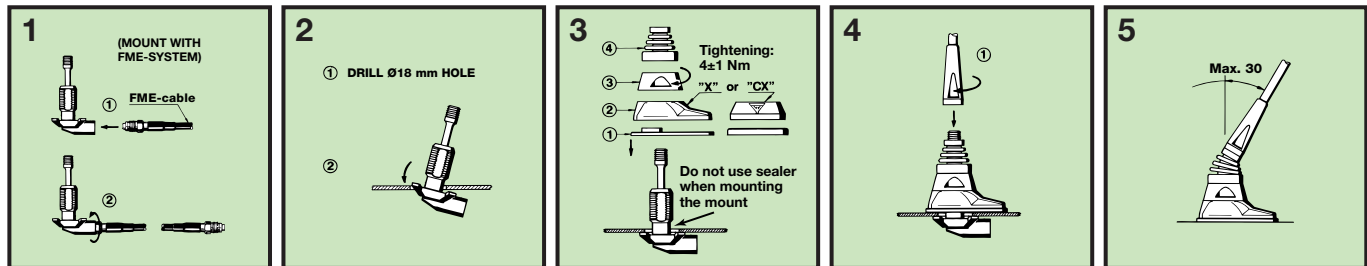


This antenna can be mounted anywhere on the car, however, roof top mounting is always recommended. The oblong X-mount can be mounted on the often very narrow strip on the rear wing between the trunk lid and the side of the car. Mounting can take place exclusively with access from the outside when drilling 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. As the mounts are internally equipped with a bendable section, the antennas can always be adjusted to an upright position independent of the tilt angle of the installation spot.

1. INSTALLATION DIMENSIONS:



2. INSTALLATION STEPS:



3. TUNING:

The tunable models are tuned to the desired frequency within the indicated tuning range by positioning the adjustment disc according to the diagrams below.

