¼ λ Mobile Antenne for the 80 MHz Band



DESCRIPTION

- Black-chromed, conical stainless steel whip with shock spring.
- Whip design for optimum wind noise reduction.
- Elegant transition between whip and mounting surface due to slim-line mount.
- 30° tiltable whip.
- Ideal for installation on the narrow strip on rear wing between trunk lid and side of car.
- 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.

SPECIFICATIONS

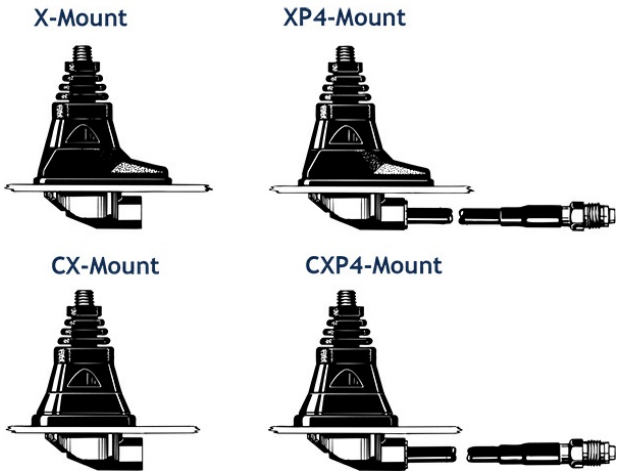
Electrical	
Model	ML 3-XR
Frequency	Tunable by cutting within : 66-88 MHz (Also applicable : 88-175 MHz)
Antenna Type	Mobile whip antenna
Max. Input Power	250 W
Polarisation	Vertical
Impedance	50 Ω
VSWR	≤ 1.3:1 @ f.res.
Bandwidth	≥ 8 MHz @ VSWR ≤ 2.0
Gain (EIA RS-329-1)	0 dB

Mechanical	
Materials	Whip : Black-chromed, conical stainless steel Black-chromed brass Mount : Black-chromed brass Weather- and shockproof plastics Stainless steel
Installation Torque	4 ±1 Nm
Colour	Black
Height	Approx. 1100 mm / 43.31 in.
Weight	X-version : Approx. 110 g / 0.24 lb. XP4-version : Approx. 270 g / 0.6 lb.
Mounting	18 mm dia. hole

ORDERING

Model	Product No.	Description
ML 3-XR	130001457	X-mount (oblong) with FME-system
ML 3-CXR	130000652	CX-mount with FME-system (circular)
ML 3-XP4R	130001339	XP4-mount with 4 m cable and FME-connector (oblong)
ML 3-CXP4R	130001435	CXP4-mount with 4 m cable and FME-connector (circular)

THE WHIP IS COMPATIBLE WITH ALL BELOW MOUNTS



INSTALLATION

This antenna can be mounted anywhere on the vehicle.

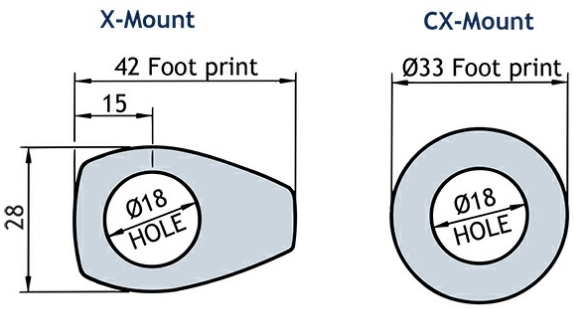
The oblong X-mount is especially suited for mounting on the often very narrow strip on the rear wing between the trunk lid and the side of the car.

Mounting can take place exclusively with access frome 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.

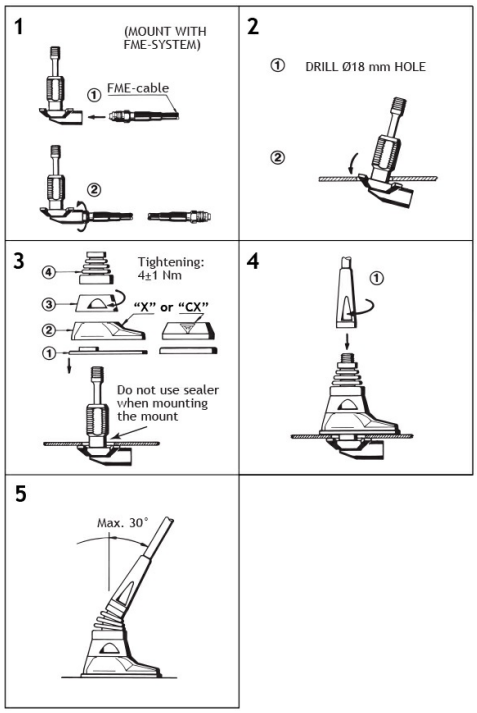
As the mount is internally equipped with a bendable section, the antenna can always be adjusted to an upright position independent of the tilt angle of the installation spot (up to 30° tilt).

1. INSTALLATION DIMENSION



Build-in depth: 11 mm

2. INSTALLATION STEPS



Do not use sealer on rubber gasket or other places.

3. TUNING

The antenna should always be tuned using an VSWR-meter.
The cutting diagrams below serve as a guide for this procedure.

