

1/4 λ Mobile Rubber Antenna for the 160 MHz Band

DESCRIPTION

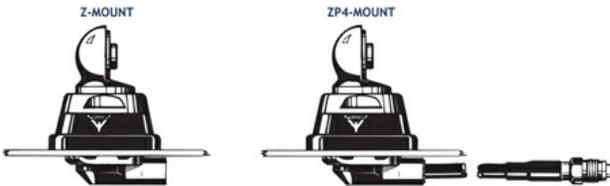
- High-flexibility rubber whip with cast-in steel-wire radiating element.
- Ideal where the whip may be exposed to mechanical shock or severe deflection when driving under low objects.
- Stainless steel Z-mount with ball-joint and wing screw whip-fastening system.
- Simple mounting exclusively with access from the outside.
Models with roof thickness from 2 mm to 7.5 mm mounting from the inside.
- Choice between two connection principles:
 - Z-mount: FME-connection (supplied without cable).
 - ZP4-mount: Permanently attached 4 m cable terminated with FME-connector.



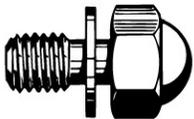
ORDERING

Type	Product No.	Description
MH 4-Z	130000763	Z-mount with FME-system
MH 4-ZP4	130000766	ZP4-mount with 4 m cable and FME-connector

ADDITIONAL DATA



Hat screw option:



For antenna delivered with hat screw instead of wing screw add a K to the antenna designation.

SPECIFICATIONS

Electrical	
Model	MH 4-Z
Frequency	Tunable by cutting within: 144 - 175 MHz (Also applicable: 175 - 225 MHz)
Antenna Type	1/4 λ mobile whip antenna
Polarisation	Vertical
Impedance	50 Ω
SWR	≤ 1.3:1 @ f.res.
Maximum Input Power	150 W
Bandwidth	≥ 15 MHz @ SWR ≤ 2.0
Gain (EIA RS-329-1)	0 dB
Mechanical	
Materials	Whip: Multicore steel wire moulded in elastomer Chromed brass Mount: Chromed brass Weather- and shockproof plastics Stainless steel
Installation Torque	7.5 ±1 Nm
Colour	Black
Height	Approx. 490 mm / 19.29 in.
Weight	Z-version: Approx. 200 g / 0.44 lb. ZP4-version: Approx. 350 g / 0.77 lb.
Mounting	21 mm dia. hole (For roof thicknesses 2 mm up to 7.5 mm mounting hole should be 22 mm dia.)
Mounting Plate Thickness	Max. 2.0 mm (Models up to 7.5 mm on request)

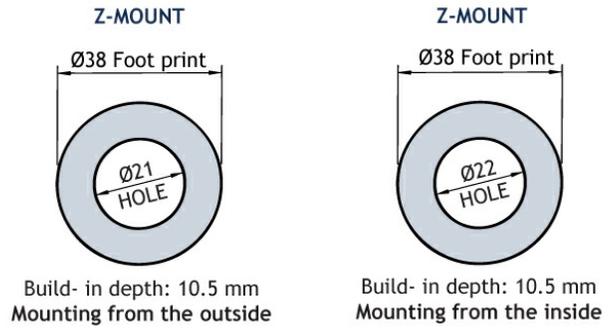
INSTALLATION

This antenna is provided with type Z-mount. The whip is fastened to the mount by means of our standard ball-joint and wing screw system. The adjustable ball-joint ensures that the whip can always be mounted in a vertical position independent of the angle of the installation spot.

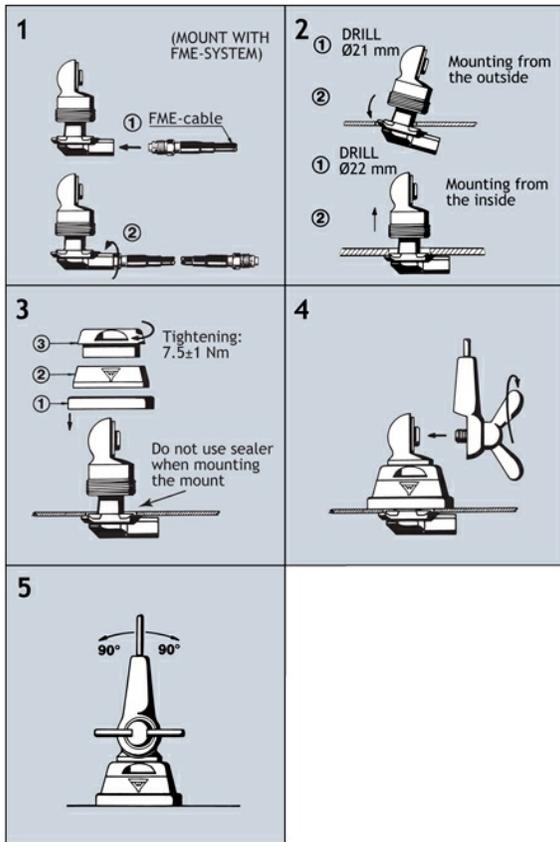
The Z-mount is particularly well suited for mounting on car-roofs because of its ability to be installed exclusively with access from the outside. The Z-Mount for roof thickness from 2 mm to 7.5 mm must be mounted from the inside.

However, the antenna can be installed anywhere on the car, as the Z-mount is equally well suited for mounting on e.g. trunk or wing.

1. INSTALLATION DIMENSIONS



2. INSTALLATION STEPS



Do not use sealer on rubber gasket or other places.

3. TUNING

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

