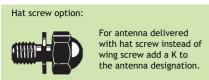
MLH 6/2-BZ

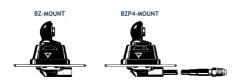
Dual-frequency Mobile Antenna for the 6 m and 2 m Amateur Bands

DESCRIPTION

- Dual-frequency antenna for the 6 m and the 2 m bands (see note).
- Covers 50 52 MHz and 144 146 MHz no tuning required.
- Shortened ¼ λ antenna at 6 m.
- 5% λ antenna at 2 m approx. 3 dB gain.
- Choice between glass fiber and stainless steel whip.
- Stainless steel BZ-mount with ball-joint and wing screw.
- Easy mounting from the outside only. Models with roof thickness from 2 mm to 7.5 mm mounting from the inside.
- Choice between two connection principles:
 - BZ-mount: FME-connection (supplied without cable).
 - BZP4-mount: Permanently attached 4 m cable terminated with FMEconnector.
- Sturdy mobile antenna of high quality.







ORDERING DESIGNATIONS

WHIP STAINLESS STEEL	PRODUCT NO.	WHIP GLASS FIBER	PRODUCT NO.	MOUNT VERSION
MLH 6/2-BZR	130000660	MLH 6/2-BZ	130000659	BZ-mount with FME-system
MLH 6/2- BZP4R	130000661	MLH 6/2- BZP4	130000662	BZP4-mount with 4 m cable + FME- connector

SPECIFICATIONS

MODEL MODEL MLH 6/2-BZ ANTENNA TYPE Mobile whip antenna: Shortened ¼ λ at 6 m, % λ at 2 m FREQUENCY 50 – 52 MHz (6 m amateur band) 144 – 146 MHz (2 m amateur band) – no tuning required IMPEDANCE Nom. 50 Ω POLARIZATION Vertical GAIN Equal to shortened ¼ λ at 6 m. Approx. 3 dB at 2 m BANDWIDTH ≥ 12 MHz @ SWR ≤ 1.5 SWR < 2.0 @ f.res. at 6 m < 1.3 @ f.res. at 2 m MAX. POWER MECHANICAL MATERIALS Whip: Conical glass fiber or stainless steel Black chromed brass Spring: Black stainless steel Mount: Black-chromed brass Weather- and shockproof plastics Stainless steel RECOMMENDED INSTALLATION
ANTENNA TYPE Mobile whip antenna: Shortened $\frac{1}{4}\lambda$ at 6 m, $\frac{4}{5}\lambda$ at 2 m FREQUENCY $50 - 52$ MHz (6 m amateur band) $144 - 146$ MHz (2 m amateur band) – no tuning required IMPEDANCE Nom. 50Ω POLARIZATION Vertical GAIN Equal to shortened $\frac{1}{4}\lambda$ at 6 m. Approx. 3 dB at 2 m BANDWIDTH ≥ 12 MHz @ SWR ≤ 1.5 SWR < 2.0 @ f.res. at 6 m < 1.3 @ f.res. at 2 m MAX. POWER MECHANICAL MATERIALS Whip: Conical glass fiber or stainless steel Black chromed brass Spring: Black stainless steel Mount: Black-chromed brass Weather- and shockproof plastics Stainless steel RECOMMENDED 7.5 ± 1 Nm
Shortened $\frac{1}{4} \lambda$ at 6 m, $\frac{1}{6} \lambda$ at 2 m FREQUENCY $50 - 52 \text{ MHz}$ (6 m amateur band) $144 - 146 \text{ MHz}$ (2 m amateur band) – no tuning required IMPEDANCE Nom. 50Ω POLARIZATION Vertical GAIN Equal to shortened $\frac{1}{4} \lambda$ at 6 m. Approx. 3 dB at 2 m BANDWIDTH $\geq 12 \text{ MHz}$ @ SWR ≤ 1.5 SWR < 2.0 @ f.res. at 6 m < 1.3 @ f.res. at 2 m MAX. POWER 150 W MECHANICAL MATERIALS Whip: Conical glass fiber or stainless steel Black chromed brass Spring: Black stainless steel Mount: Black-chromed brass Weather- and shockproof plastics Stainless steel RECOMMENDED 7.5 $\pm 1 \text{ Nm}$
POLARIZATION Vertical GAIN Equal to shortened ¼ λ at 6 m. Approx. 3 dB at 2 m BANDWIDTH ≥ 12 MHz @ SWR ≤ 1.5 SWR < 2.0 @ f.res. at 6 m < 1.3 @ f.res. at 2 m MAX. POWER 150 W MECHANICAL MATERIALS Whip: Conical glass fiber or stainless steel Black chromed brass Spring: Black stainless steel Mount: Black-chromed brass Weather- and shockproof plastics Stainless steel RECOMMENDED 7.5 ± 1 Nm
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Conical glass fiber or stainless steel Black chromed brass Spring: Black stainless steel Mount: Black-chromed brass Weather- and shockproof plastics Stainless steel RECOMMENDED 7.5 ± 1 Nm
TORQUE
COLOUR Black
HEIGHT Approx. 1300 mm
WEIGHT BZ-version: Approx. 350 g BZP4-version: Approx. 500 g
MOUNTING Ø21 mm dia. hole (For roof thickness 2 mm up to 7.5 mm mounting hole should be Ø22 mm dia.)
ROOF THICKNESS Max. 2.0 mm (Models up to 7.5 mm on request)

NOTE

A diplexer type DIPX 88/136 can be used, when operating two transceivers at the same time.

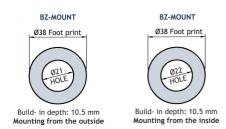


INSTALLATION

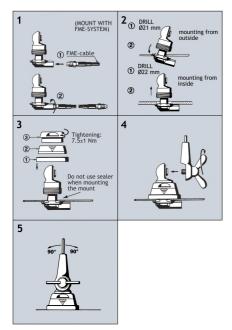
This antenna is provided with type BZ-mount. The whip is fastened to the mount by means of our standard ball-joint and wing screw system. The adjustable ball-joint ensures that the whip can always be mounted in a vertical position independent of the angle of the installation spot.

The BZ-mount is particularly well suited for mounting on car-roofs because of its ability to be installed exclusively with access from the outside. The BZ-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 BZ-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 is delivered factory-tuned and requires no further tuning.

4. OPERATING USING A DIPLEXER

This antenna makes it possible to operate two transceivers at the same time. In this case, a diplexer type DIPX 88/136 is neccessary to complete the system (see the coupling diagram below). The tasks of the diplexer are to protect the two receiver inputs from being destroyed by the transmitter in the contrary band, and to ensure a low-loss path between the transceiver and the antenna, which is not loaded by the other branch. For further details please see the separate data sheet on the DIPX 88/136. The diplexer fully covers both bands and, consequently, tuning to specific frequencies is not required.

