

ML 1-Z

¼ λ Mobile Antenna with Shock Spring for the 80 MHz Band

- Sturdy, general-purpose ¼ λ antenna in professional quality.
- Available with glass fiber or stainless steel whip.

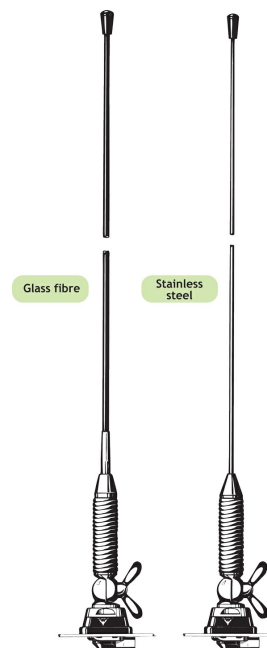
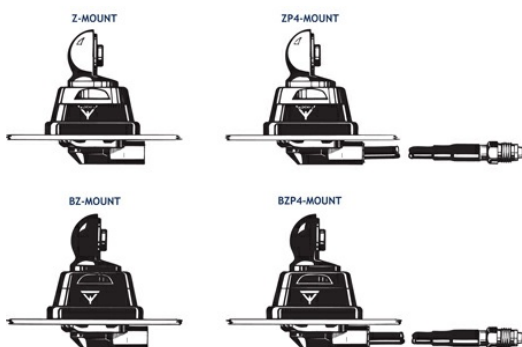
DESCRIPTION

- Stainless steel Z-mount with ball-joint and wing screw whip-fastening system.
- Available with bright or black-chromed metal parts (mount and whip):
 - ML 1-Z...: Bright version
 - ML 1-BZ...: Black version
- 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.

Hat screw option:



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



SPECIFICATIONS

ELECTRICAL	
MODEL	ML 1-Z
ANTENNA TYPE	¼ λ mobile whip antenna
FREQUENCY	Tunable by cutting within: 66...88 MHz (Also applicable: 88...175 MHz)
IMPEDANCE	Nom. 50 Ω
POLARIZATION	Vertical
GAIN	0 dB (acc. to EIA RS-329-1)
BANDWIDTH	≥ 8 MHz @ SWR ≤ 2.0
SWR	≤ 1.3 @ f. res.
MAX. POWER	250 W
MECHANICAL	
MATERIALS	Whip: Conical glass fiber or Stainless steel Chromed brass Spring: Stainless steel Mount: Chromed brass Weather- and shockproof plastics Stainless steel
RECOMMENDED INSTALLATION TORQUE	7.5 ± 1 Nm
COLOUR	Black or bright, see above
HEIGHT	Approx. 1.1 m
WEIGHT	Z-version: Approx. 250 g ZP4-version: Approx. 400 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)

ORDERING DESIGNATIONS

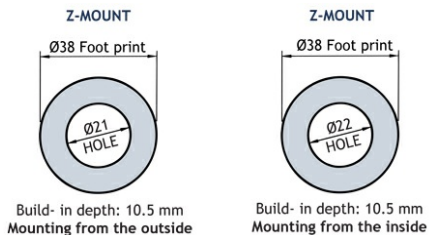
TYPE Whip	PRODUCT NO.	TYPE Whip	PRODUCT NO.	MOUNT
Glass fiber	130000605	Stainless steel	130000616	Z-mount with FME-system BRIGHT
	130000606		130000621	BZ-mount with FME-system BLACK
	130000607		130000618	ZP4-mount with 4 m cable and FME-connector BRIGHT
	130000608		130000622	BZP4-mount with 4 m cable and FME-connector BLACK

INSTALLATION

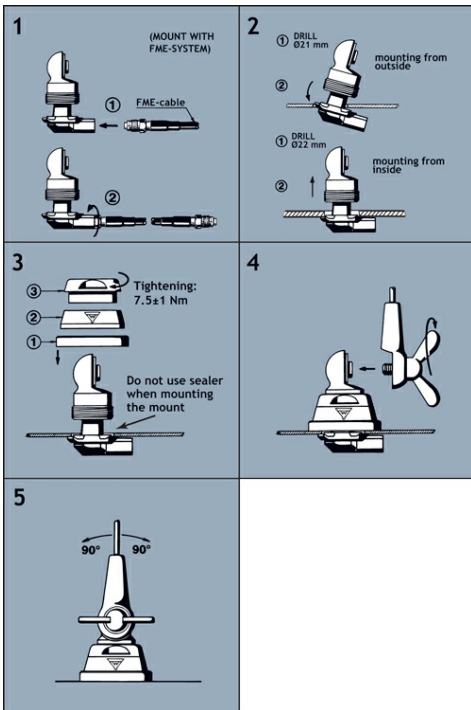
This antenna is supplied with type Z-mount. The whip is fastened to the mount by means of our standard ball-joint and wing screw system. The adjustable ball-joint ensures that the whip can always be mounted in a vertical position independent of the angle of the installation spot.

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

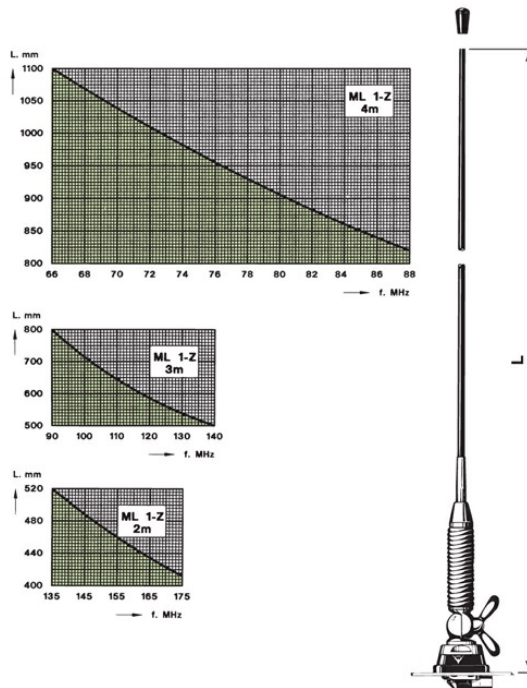


Do not use sealer on rubber gasket or other places.

3. TUNING

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

GLASS FIBRE WHIP



STAINLESS STEEL WHIP

