

# MU 23-3-ZG

Colinear 3 dB Mobile Antenna for the 23 cm Amateur Band: 1240 – 1300 MHz

## DESCRIPTION

- 3 dB collinear whip comprising a  $\frac{3}{8}$   $\lambda$  section, a phasing coil and a  $\frac{5}{8}$   $\lambda$  section.
- All materials in top professional quality.
- Broadband-performance 1240 – 1300 MHz – no tuning required.
- Stainless steel ZG-mount with M8 x 1-thread whip-fastening system.
- Simple mounting in a 21 mm hole with access from the outside only.
- Choice between two connection principles:
  - ZG-mount: FME-connection (supplied without cable).
  - ZGP4-mount: Permanently attached 4 m low-loss RG 58 cable terminated with FME-connector.



## ORDERING DESIGNATION

TYPE	PRODUCT NO.	MOUNT VERSION
MU 23-3-ZG	130001263	ZG-mount with FME-system
MU 23-3-ZGP4	130001265	ZGP4-mount with 4 m cable and FME-connector

## SPECIFICATIONS

ELECTRICAL	
MODEL	MU 23-3-ZG
ANTENNA TYPE	Collinear mobile antenna
FREQUENCY	23 cm amateur band: 1240 – 1300 MHz
IMPEDANCE	Nom. 50 $\Omega$
POLARIZATION	Vertical
GAIN	3 dB (acc. to EIA RS-329-1)
BANDWIDTH	$\geq 60$ MHz @ SWR $\leq 2.5$
SWR	$\leq 2.0$ @ f. res.
MAX. POWER	40 W
MECHANICAL	
MATERIALS	<b>Whip:</b> Black-chromed stainless steel and brass <b>Mount:</b> Black-chromed brass Weather- and shockproof plastics Stainless steel
RECOMMENDED INSTALLATION TORQUE	7.5 $\pm$ 1 Nm
COLOUR	Black
HEIGHT	Approx. 22 cm
WEIGHT	ZG-version: Approx. 120 g ZGP4-version: Approx. 260 g
MOUNTING	21 mm dia. hole

## FME-SYSTEM ACCESSORIES

FME-CABLES	
TYPE	LENGTH
1 m FME	1 m
2 m FME	2 m
3 m FME	3 m
4 m FME	4 m
5 m FME	5 m
6 m FME	6 m
4 m FME-white	4 m white
6 m FME-white	6 m white
12 m FME-white	12 m white
18 m FME-white	18 m white

FME-CONNECTORS	
TYPE	CONNECTOR
FME-FME	FME-FME
FME-P	Prolongation
FME-N	N
FME-FSMA	FSMA
FME-BNC	BNC
FME-TNC	TNC
FME-UHF	UHF
FME-MUHF	Mini-UHF
FME-EMUHF	Elbow-MUHF
FME-EBNC	Elbow-BNC
FME-ETNC	Elbow-TNC
FME-SMA	SMA

For further information about other types of FME-cables and FME-connectors, please compare the cable and connector data sheets under accessories in our catalogue.

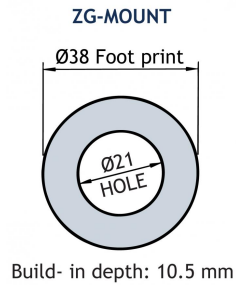
## INSTALLATION

This antenna should be mounted on the car roof to ensure best omnidirectional coverage. The antenna is provided with our type ZG-mount for mounting from the outside in a 21 mm dia. hole.

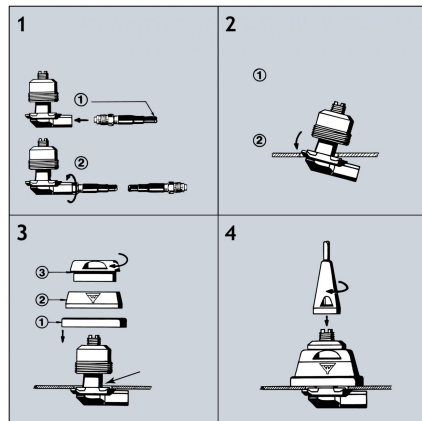
The ZG-mount is provided with an M8 x 1 thread mount system. This construction meets the demand for a low-profile mobile mount with a slim appearance and with protection against theft of the antenna whip.

When cleaning the car in automatic washing machines, the whip is easily removed using a spanner, size 12 mm. The whip is refitted again by screwing it onto the M8 x 1 thread stud and tightening it with the spanner.

### 1. INSTALLATION DIMENSIONS



### 2. INSTALLATION STEPS



### 3. TUNING

The antenna is delivered factory-tuned and requires no further tuning.



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