

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

DESCRIPTION

- 3 dB colinear whip comprising a $\frac{1}{2} \lambda$ section, a phasing coil and a $\frac{1}{2} \lambda$ section.
- All materials in top professional quality.
- Broadband-performance 1240 - 1300 MHz – no tuning required.
- Stainless steel X-mount with M6-thread whip-fastening system.
- Simple mounting in an 18 mm hole with access from the outside only.
- Models available with X-mount (oblong), CX-mount (circular) and MM-mount (magnetic).
- Choice between two connection principles:
 - X-mount, MM-mount: FME-connection (supplied without cable).
 - XP4-mount: Permanently attached 4 m low-loss RG 58 cable terminated with FME-connector.



SPECIFICATIONS

Electrical	
Model	MU 23-3-X
Frequency	23 cm amateur band : 1240 - 1300 MHz
Antenna Type	Collinear mobile antenna
Max. Input Power	40 W
Polarisation	Vertical
Impedance	50 Ω
VSWR	≤ 1.5 @ f. res.
Bandwidth	≥ 60 MHz @ VSWR ≤ 2.0
Gain (EIA RS-329-1)	3 dB
Mechanical	
Materials	Whip : Black-chromed stainless steel and brass Durable plastics Mount : Black-chromed brass Weather- and shockproof plastics Stainless steel
Installation Torque	4 $\pm$ 1 Nm
Colour	Black
Height	Approx. 220 mm / 8.66 in.
Weight	X-version : Approx. 60 g / 0.13 lb. XP4-version : Approx. 200 g / 0.44 lb. MM-version : Approx. 230 g / 0.51 lb.
Mounting	18 mm dia. hole

ORDERING

Model	Product No.	Description
MU 23-3-X	130001259	X-mount (oblong) with FME-system
MU 23-3-CX	130001261	CX-mount (circular) with FME-system + FME-connector
MU 23-3-XP4	130001260	XP4-mount (oblong) with 4 m cable + FME-connector
MU 23-3-CXP4	130001262	CXP4-mount (circular) with 4 m cable
MU 23-3-MM	130001264	MM-mount (magnetic) with FME-system

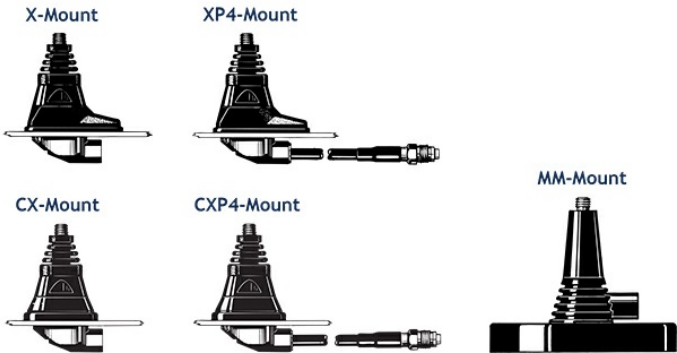
FME-SYSTEM ACCESSORIES

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.

THE WHIP IS COMPATIBLE WITH ALL BELOW MOUNTS

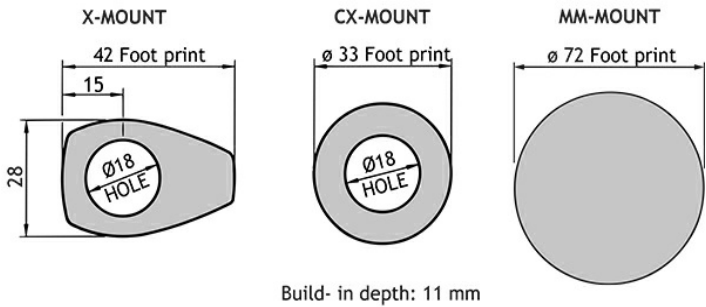


INSTALLATION

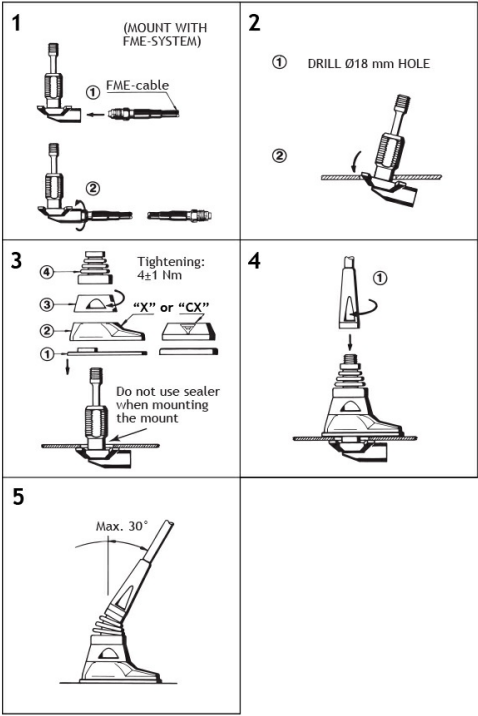
This antenna should be mounted on the car roof to ensure best omnidirectional coverage. Mounting can take place exclusively with access from the outside when drilling an 18 mm dia. hole. Mounting can take place from the inside by drilling a 14 mm dia. hole. When mounting in a 14 mm dia. hole, remove 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. The MiniMag (abbreviated: MM) is a small, light-weight magnetic mount with a high attaching effect. A silicone layer applied to the contact surface protects the car roof and ensures maximum friction.

1. INSTALLATION DIMENSION



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.

PLEASE NOTE

For safety reasons:

- When using the MU 23-3-MM, car speed must not exceed 130 km/h.
- If operating the MM-mount with other whips, whip length must never exceed 320 mm, and utilizing this maximum length, car speed must not exceed 115 km/h.

