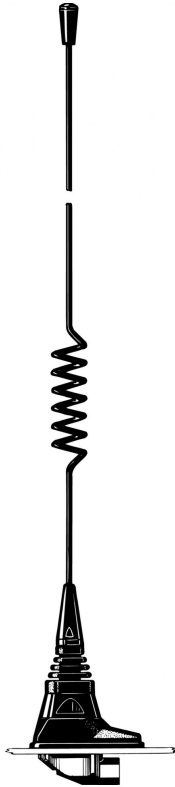


MU 904-X/...

Collinear 4 dB Mobile Antenna for the 900 MHz Band

DESCRIPTION

- 4 dB mobile antenna with black-chromed, stainless steel whip.
- 3 models, type "l", "m" and "h", cover band segments suiting the most common 900 MHz CELLULAR networks such as EAMPS, ETACS, NMT-900 and EGSM.
- Stainless steel X-mount with M6-thread whip-fastening system.
- Simple mounting exclusively with access from the outside.
- 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 cable terminated with FME-connector.



ORDERING DESIGNATIONS

TYPE	PRODUCT NO.	FREQUENCY	MOUNT VERSION
MU 904-X/l	130001167	824 - 894 MHz (EAMPS)	X-mount (oblong) with FME-system
MU 904-X/m	130001172	872 - 950 MHz (ETACS)	
MU 904-X/h	130001159	880 - 960 MHz (EGSM & NMT-900)	
MU 904-CX/l	130001168	824 - 894 MHz (EAMPS)	CX-mount (circular) with FME-system
MU 904-CX/m	130001173	872 - 950 MHz (ETACS)	
MU 904-CX/h	130001160	880 - 960 MHz (EGSM & NMT-900)	
MU 904-XP4/l	130001170	824 - 894 MHz (EAMPS)	XP4-mount (oblong) with 4 m cable + FME-connector
MU 904-XP4/m	130001175	872 - 950 MHz (ETACS)	
MU 904-XP4/h	130001161	880 - 960 MHz (EGSM & NMT-900)	
MU 904-CXP4/l	130001171	824 - 894 MHz (EAMPS)	CXP4-mount (circular) with 4 m cable + FME-connector
MU 904-CXP4/m	130001176	872 - 950 MHz (ETACS)	
MU 904-CXP4/h	130001162	880 - 960 MHz (EGSM & NMT-900)	
MU 904-MM/l	130001154	824 - 894 MHz (EAMPS)	MM-mount (magnetic) with FME-system
MU 904-MM/m	130001155	872 - 950 MHz (ETACS)	
MU 904-MM/h	130001153	880 - 960 MHz (EGSM & NMT-900)	

SPECIFICATIONS

ELECTRICAL	
MODEL	MU 904-X/...
ANTENNA TYPE	Collinear mobile antenna
FREQUENCY	900 MHz-band covered by three models
IMPEDANCE	Nom. 50 Ω
POLARIZATION	Vertical
GAIN	4 dB (acc. to EIA RS-329-1)
BANDWIDTH	≥ 50 MHz @ SWR ≤ 1.5 ≥ 100 MHz @ SWR ≤ 2.0
SWR	≤ 1.3 @ f. res.
MAX. POWER	60 W
MECHANICAL	
MATERIALS	Whip: Stainless steel and brass, black-chromed Mount: Black-chromed brass Weather- and shockproof plastics Stainless steel
RECOMMENDED INSTALLATION TORQUE	4 ± 1 Nm
COLOUR	Black
HEIGHT	Approx. 35 cm
WEIGHT	X-version: Approx. 70 g XP4-version: Approx. 210 g MM-version: Approx. 320 g
MOUNTING	18 mm dia. hole

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.

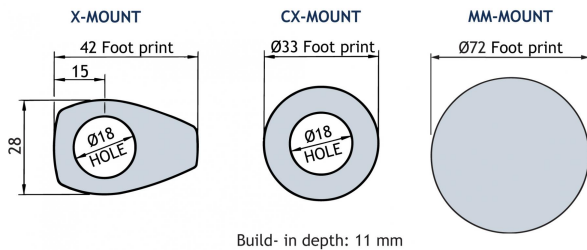
When cleaning the car in car-washing machines, remove the whip using a spanner, size 9 mm. After wash, refit the whip and tighten it lightly with the spanner.

As the X- and CX-mounts are internally equipped with a bendable section, the antenna can always be adjusted to an upright position independent of the tilt angle of the installation spot (up to 30° tilt).

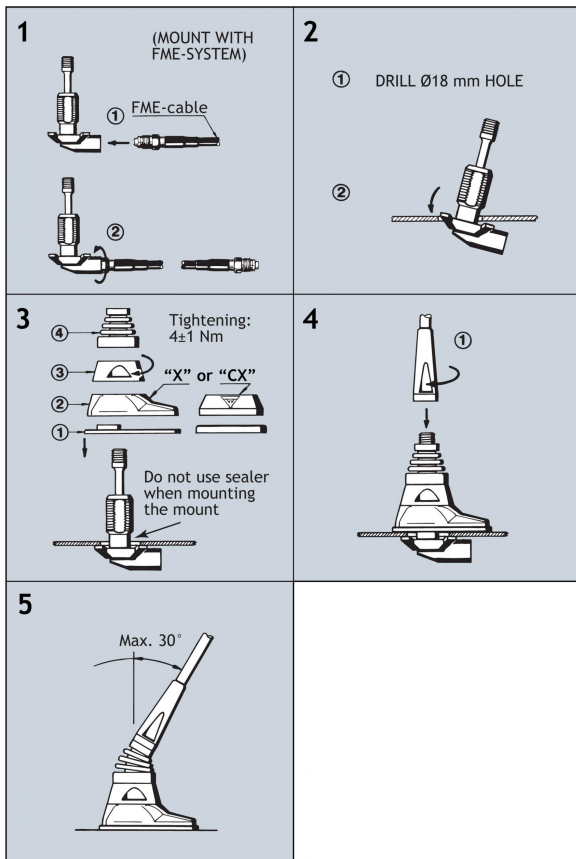
The MiniMag (abbreviated: MM) is a small, light-weight magnetic mount with a high attaching effect. A silicone layer applied to the contact surface protects the car roof and ensures maximum friction.

Antennas with magnetic mount should be mounted at the centre of the vehicle roof to ensure best omnidirectional coverage.

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.

PLEASE NOTE

For safety reasons

1. When using the MU 904-MM/..., car speed must not exceed 150 km/h.
2. 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.



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