# MU 7-LX/...

# Unity Gain $\frac{1}{4}$ $\lambda$ Mobile Antenna for the 450 MHz Band

# DESCRIPTION

- 0 dB mobile antenna with silicone covered flexible steel wire whip.
- Type MU 7-LX/s covers 370 410 MHz
   Type MU 7-LX/l covers 406 440 MHz
   Type MU 7-LX/h covers 430 470 MHz
   no tuning required.
- Stainless steel LX-mount professional quality in elegant and smooth design.
- Especially suited for roof-mounting.
- Provided with FME-connection (supplied without cable).
- Bendable section in mount for adjustment of whip (tiltable 15° by hand).
- Installation with access from the outside only (requiring an 18 mm dia. hole).



## ORDERING DESIGNATION

TYPE	PRODUCT NO.	FREQUENCY RANGE
MU 7-LX/s	130001077	370 - 410 MHz
MU 7-LX/I	130001079	406 - 440 MHz
MU 7-LX/h	130001078	430 - 470 MHz

## **SPECIFICATIONS**

MODEL       MU 7-LX/         ANTENNA TYPE $1/4 \lambda$ mobile whip antenna         FREQUENCY $450 \text{ MHz}$ band covered by three models         IMPEDANCE       Nom. $50 \Omega$ POLARISATION       Vertical         GAIN       0 dB (acc. to EIA RS-329-1)         BAND WIDTH $\geq 40 \text{ MHz}$ SWR $\leq 1.3 @ f. res.$ MAX. POWER       100 W         MECHANICAL         MATERIALS       Whip: Steel wire covered with silicone tubing Black-chromed brass Mount: Stainless steel Brass Environment-proof plastics         RECOMMENDED       3.5 Nm max.         INSTALLATION TORQUE	ELECTRICAL	
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	MODEL	MU 7-LX/
$\begin{array}{lll} \text{IMPEDANCE} & \text{Nom. 50 } \Omega \\ \text{POLARISATION} & \text{Vertical} \\ \text{GAIN} & 0 \text{ dB (acc. to EIA RS-329-1)} \\ \text{BAND WIDTH} & \geq 40 \text{ MHz} \\ \text{SWR} & \leq 1.3 \text{ @ f. res.} \\ \text{MAX. POWER} & 100 \text{ W} \\ \text{MECHANICAL} \\ \text{MATERIALS} & \textbf{Whip: Steel wire covered with silicone tubing Black-chromed brass } \textbf{Mount: Stainless steel Brass } \\ \text{Environment-proof plastics} \\ \text{RECOMMENDED} & 3.5 \text{ Nm max.} \\ \end{array}$	ANTENNA TYPE	1/4 λ mobile whip antenna
POLARISATION Vertical  GAIN 0 dB (acc. to EIA RS-329-1)  BAND WIDTH ≥ 40 MHz  SWR ≤ 1.3 @ f. res.  MAX. POWER 100 W  MECHANICAL  MATERIALS Whip: Steel wire covered with silicone tubing Black-chromed brass Mount: Stainless steel Brass Environment-proof plastics  RECOMMENDED 3.5 Nm max.	FREQUENCY	450 MHz band covered by three models
GAIN 0 dB (acc. to EIA RS-329-1)  BAND WIDTH ≥ 40 MHz  SWR ≤ 1.3 @ f. res.  MAX. POWER 100 W  MECHANICAL  MATERIALS Whip: Steel wire covered with silicone tubing Black-chromed brass Mount: Stainless steel Brass Environment-proof plastics  RECOMMENDED 3.5 Nm max.	IMPEDANCE	Nom. 50 Ω
BAND WIDTH ≥ 40 MHz  SWR ≤ 1.3 @ f. res.  MAX. POWER 100 W  MECHANICAL  MATERIALS  Whip: Steel wire covered with silicone tubing Black-chromed brass Mount: Stainless steel Brass Environment-proof plastics  RECOMMENDED  INSTALLATION TORQUE  A MHZ  STAIL STAI	POLARISATION	Vertical
SWR ≤ 1.3 @ f. res.  MAX. POWER 100 W  MECHANICAL  MATERIALS  Whip: Steel wire covered with silicone tubing Black-chromed brass Mount: Stainless steel Brass Environment-proof plastics  RECOMMENDED INSTALLATION TORQUE  3.5 Nm max.	GAIN	0 dB (acc. to EIA RS-329-1)
MAX. POWER 100 W  MECHANICAL  MATERIALS  Whip: Steel wire covered with silicone tubing Black-chromed brass Mount: Stainless steel Brass Environment-proof plastics  RECOMMENDED INSTALLATION TORQUE  100 W  Whip: Steel wire covered with silicone tubing Black-chromed brass Mount: Stainless steel Brass Environment-proof plastics	BAND WIDTH	≥ 40 MHz
MECHANICAL  MATERIALS  Whip: Steel wire covered with silicone tubing Black-chromed brass Mount: Stainless steel Brass Environment-proof plastics  RECOMMENDED INSTALLATION TORQUE  NECHANICAL  Note: The property of the prope	SWR	≤ 1.3 @ f. res.
MATERIALS  Whip: Steel wire covered with silicone tubing Black-chromed brass Mount: Stainless steel Brass Environment-proof plastics  RECOMMENDED INSTALLATION TORQUE  NAME OF THE PROPERTY OF	MAX. POWER	100 W
chromed brass <b>Mount:</b> Stainless steel Brass Environment-proof plastics  RECOMMENDED 3.5 Nm max.  INSTALLATION TORQUE	MECHANICAL	
INSTALLATION TORQUE	MECHANICAL	
		chromed brass Mount: Stainless steel Brass
CABLE FME-cable to be ordered separately	MATERIALS  RECOMMENDED	chromed brass <b>Mount:</b> Stainless steel Brass Environment-proof plastics
COLOUR Black	MATERIALS  RECOMMENDED	chromed brass <b>Mount:</b> Stainless steel Brass Environment-proof plastics
HEIGHT Approx. 160 mm	MATERIALS  RECOMMENDED INSTALLATION TORQUE CABLE	chromed brass <b>Mount:</b> Stainless steel Brass Environment-proof plastics  3.5 Nm max.  FME-cable to be ordered separately
WEIGHT Approx. 45 g	RECOMMENDED INSTALLATION TORQUE CABLE COLOUR	chromed brass <b>Mount:</b> Stainless steel Brass Environment-proof plastics 3.5 Nm max.  FME-cable to be ordered separately Black
MOUNTING 18 mm dia. hole	RECOMMENDED INSTALLATION TORQUE CABLE COLOUR HEIGHT	chromed brass <b>Mount:</b> Stainless steel Brass Environment-proof plastics 3.5 Nm max.  FME-cable to be ordered separately Black Approx. 160 mm



## INSTALLATION

The LX-mount is especially suited for roof-mounting. It is recommended to mount the antenna at the centre of the roof to ensure the best omnidirectional coverage. Mounting can take place in an 18 mm dia. hole with access from the outside only.

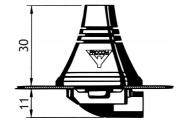
When cleaning the car in car-washing machines, the whip should be removed - a 9 mm fork spanner can be used. After wash, the whip is refitted and tightened lightly with the spanner.

The mount is equipped with a bendable section ( $\pm 15^{\circ}$ ) to make it possible to adjust the antenna to an upright position.

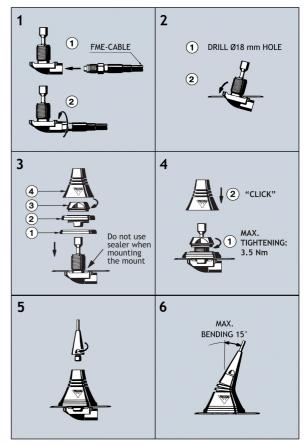
#### 1. INSTALLATION DIMENSIONS

#### LX-MOUNT





## 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.



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