

# CXL 23-10 LW

## Lightweight, 10 dBd, Omnidirectional Base Station Antenna for the 23 cm Amateur Band

**DESCRIPTION:**

CXL 23-10 LW is a 10 dBd, vertically polarised, omnidirectional base station antenna, which covers the complete 23 cm band.

The antenna is provided with our sturdy type »LW« mast mount, which is a lightweight, all-purpose, gold-anodized mounting bracket made of non-corrosive aluminium. The accompanying U-bolts and fittings are made of stainless steel. The antenna can be mounted on vertical or horizontal mast tubes, 16 to 54 mm in outer diameter. Further, the construction of the mount makes it possible to lead the cable either along the inside or on the outside of the mast tube.

In designing this antenna, special emphasis has been laid on obtaining a large bandwidth both in relation to SWR and gain, making this antenna highly suitable for repeater operation.

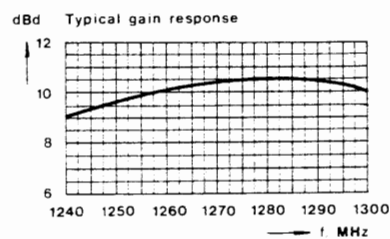
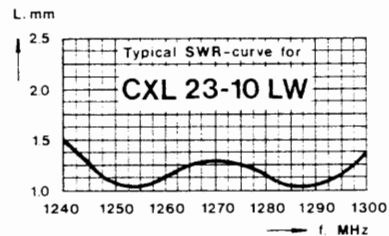
The carefully designed radiating element is sealed in a high-quality, conical glassfiber tube with low wind-load, which will ensure undisturbed performance in all climates.

To substantially reduce noise caused by atmospherical discharges, all metal parts in the antenna are DC-grounded. Consequently, the antenna shows a DC-short across the coaxial cable.

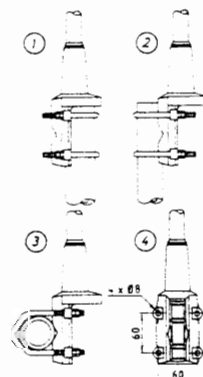
CXL 23-10 LW is a vibration-proof, lightweight, slim-line, corrosion-resistant, modern style base station antenna.

**SPECIFICATIONS:**

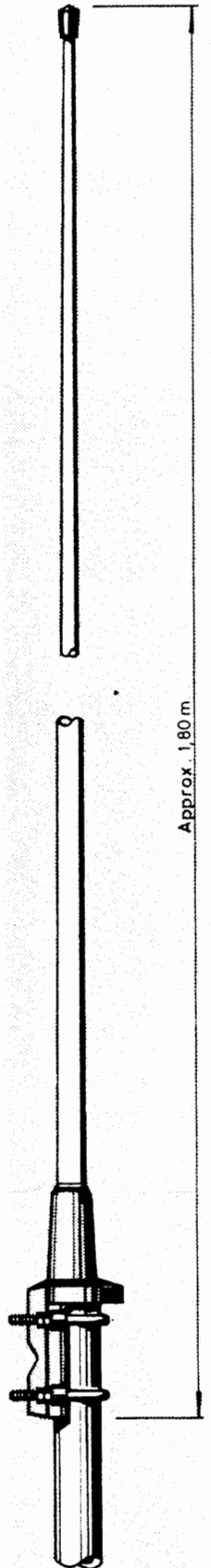
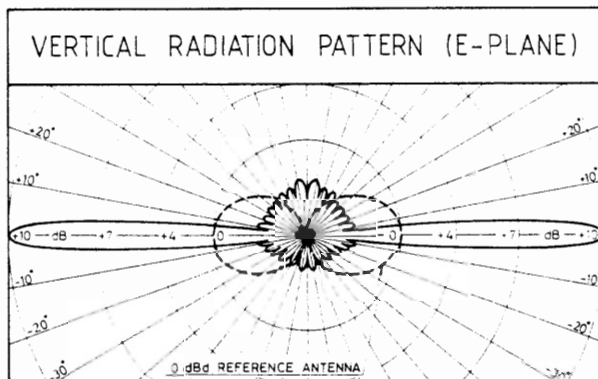
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|----------------------|---|--|
| MODEL                | : | CXL 23-10 LW                           |
| ANTENNA TYPE         | : | Omnidirectional colinear, broad-banded |
| FREQUENCY            | : | 1240 – 1300 MHz                        |
| IMPEDANCE            | : | Nom. 50 Ω                              |
| POLARISATION         | : | Vertical                               |
| GAIN                 | : | 10 dBd                                 |
| HALF-POWER BEAMWIDTH | : | 6°                                     |
| BANDWIDTH            | : | 60 MHz                                 |
| SWR                  | : | ≤ 1.5                                  |
| MAX. POWER           | : | 100 Watts                              |
| CONNECTOR            | : | N-female                               |
| WIND SURFACE         | : | Approx. 0.035 m <sup>2</sup>           |
| WIND LOAD            | : | Approx. 39 N (at 150 km/h)             |
| ANTENNA COLOUR       | : | Marine white                           |
| TOTAL LENGTH         | : | Approx. 1.8 m                          |
| WEIGHT               | : | Approx. 1.5 kg                         |
| MOUNTING             | : | On 16 to 54 mm dia. mast tube          |



**MULTI-PURPOSE MOUNTING BRACKET:**



- ① Mast tube D<sub>o</sub> min. = 30 mm  
Mast tube D<sub>o</sub> max. = 54 mm
- ② Mast tube D<sub>o</sub> max. = 54 mm  
Mast tube D<sub>o</sub> min. = 16 mm
- ③ Mast tube D<sub>o</sub> max. = 54 mm  
Mast tube D<sub>o</sub> min. = 16 mm



Approx. 1,80 m