

# CXL 1800-3LW

3 dBd Omnidirectional Base Station and Marine Antenna for the 1800 MHz Band



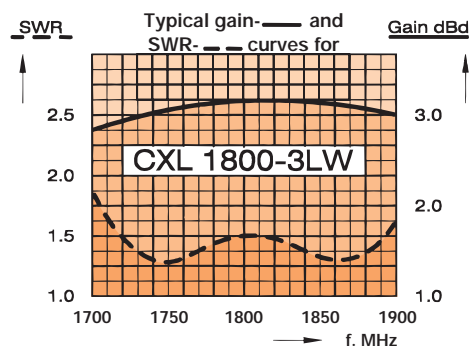
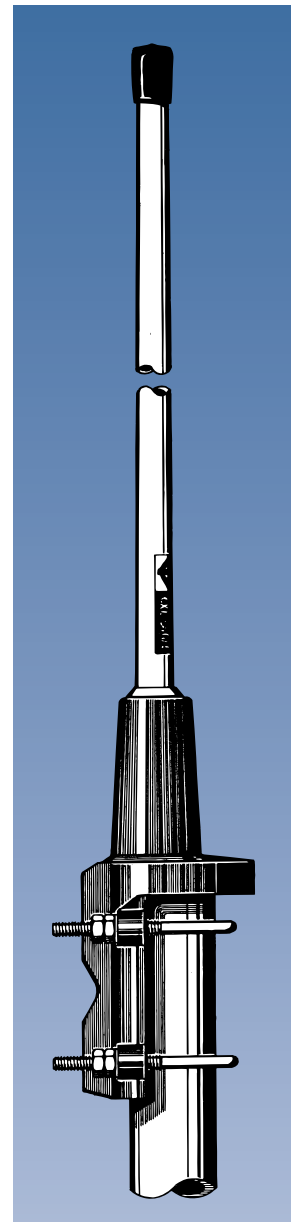
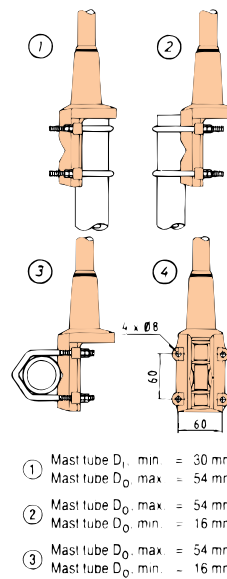
## DESCRIPTION:

- ★ Vertically polarised, omnidirectional base station and marine antenna.
- ★ Approximately 3 dBd gain.
- ★ Provided with the sturdy "LW" mast mount – a lightweight, multipurpose, epoxy-coated mounting bracket made of non-corrosive aluminium.
- ★ The accompanying U-bolts and fittings are made of stainless steel.
- ★ To be mounted on vertical or horizontal mast tubes, 16 to 54 mm in outer diameter.
- ★ The cable can be led either on the outside or along the inside of the mast tube.
- ★ Large bandwidth with respect to both SWR and gain.
- ★ Highly suitable for duplex operation with large spacing between the TX and the RX frequencies, e.g. the DCS-1800/PCN cellular system.
- ★ The antenna element is sealed in a high-quality, conical glassfiber tube.
- ★ All metal parts in the antenna are DC-grounded to reduce the noise caused by atmospherical discharge. Consequently, the antenna shows a DC-short across the coaxial cable.
- ★ The CXL 1800-3LW is a vibration-proof, lightweight, slim-line, corrosion resistant, modern style base station and marine antenna.

## SPECIFICATIONS:

| ELECTRICAL            |  |
|-----------------------|--|
| MODEL                 | CXL 1800-3LW   |
| ANTENNA TYPE          | Coaxial, colinear antenna, broad-banded  |
| FREQUENCY             | 1710-1880 MHz  |
| IMPEDANCE             | Nom. 50 Ω  |
| POLARISATION          | Vertical   |
| GAIN                  | 5 dBi 3 dBd  |
| BANDWIDTH             | ≥ 170 MHz at SWR ≤ 2.0   |
| SWR                   | ≤ 2.0, typ. ≤ 1.75   |
| MAX. POWER            | 100 watt   |
| ANTISTATIC PROTECTION | All metal parts DC-grounded (Connector shows a DC-short)   |
| MECHANICAL            |  |
| TEMP. RANGE           | -30° C i +70° C  |
| CONNECTOR             | N-female   |
| WIND SURFACE          | Approx. 0.02 m <sup>2</sup>  |
| WIND LOAD             | Approx. 23 N (at 150 km/h)   |
| COLOUR                | Marine white   |
| MATERIALS             | Radome: Polyurethane coated fiberglass<br>Mounting bracket: Seawater resistant aluminium, epoxy-coated |
| TOTAL HEIGHT          | Approx. 0.7 m  |
| WEIGHT                | Approx. 0.6 kg   |
| MOUNTING              | On 16-54 mm dia. mast tube   |

MULTI-PURPOSE MOUNTING BRACKET:



## PLEASE NOTE:

The antenna is delivered with a DC-connection between the antenna element and the mounting bracket (i.e. the mast tube). This feature is important when the antenna is used as a base station antenna.

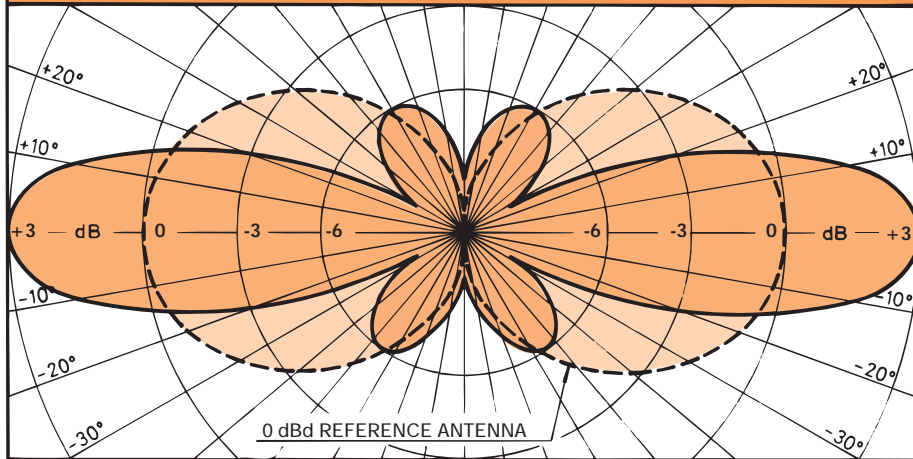
PROCOM A/S reserve the right to amend specifications without prior notice.

# CXL 1800-3LW

3 dBd Omnidirectional Base Station and Marine Antenna for the 1800 MHz Band



## TYPICAL RADIATION PATTERN (E-PLANE)



## TYPICAL RADIATION PATTERN (H-PLANE)

