

CXL 1800-1LW

Universal, 0 dBd Base Station and Marine Antenna for the 1800 MHz Band



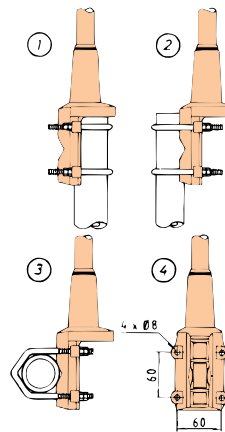
DESCRIPTION:

- ★ CXL 1800-1LW is a 0 dBd, vertically polarised, omnidirectional base station and marine antenna for the 1800 MHz band.
- ★ The antenna is provided with our sturdy type "LW" mast mount, which is a lightweight, multi-purpose, epoxy-coated 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.
- ★ The carefully designed, broad-banded antenna element is sealed in a high-quality, conical glassfiber tube with low wind-load, which will ensure undisturbed performance by corrosive environments.
- ★ To substantially reduce noise caused by atmospheric discharges, all metal parts in the antenna are DC-grounded. Consequently, the antenna shows a DC-short across the coaxial cable.
- ★ The CXL 1800-1LW is a vibration-proof, lightweight, slim-line, corrosion resistant, modern style base station and marine antenna.

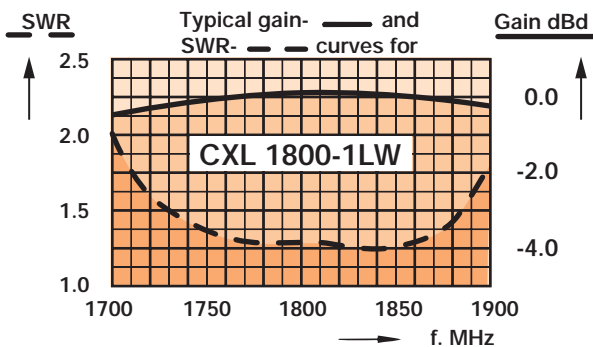
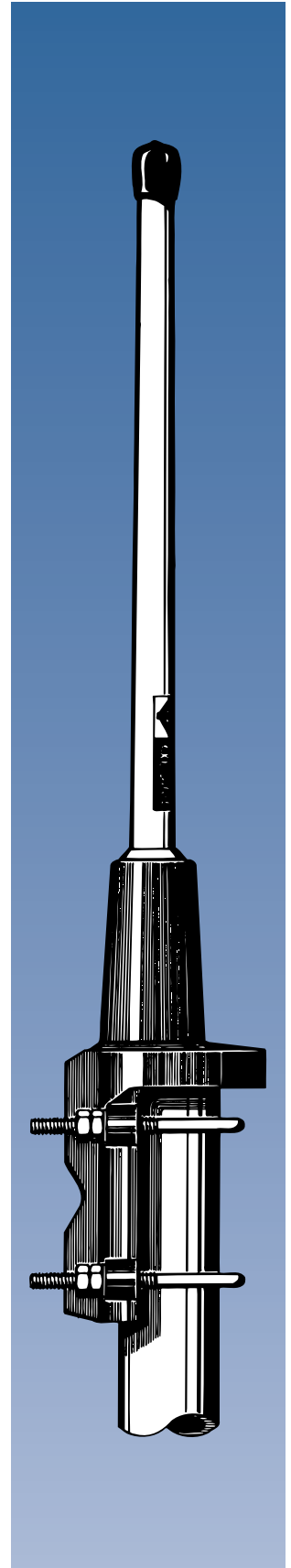
SPECIFICATIONS:

ELECTRICAL	
MODEL	CXL 1800-1LW
ANTENNA TYPE	1/2 λ coaxial dipole, broad-banded
FREQUENCY	1710–1880 MHz
IMPEDANCE	Nom. 50 Ω
RADIATION	Omnidirectional
POLARISATION	Vertical
GAIN	2 dBi 0 dBd
BANDWIDTH	≥ 170 MHz at SWR ≤ 2.0
SWR	≤ 2.0
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. 0.018 m ²
WIND LOAD	20 N (at 150 km/h)
COLOUR	Marine white
MATERIALS	Radome: Polyurethane coated fiberglass Mounting bracket: Seawater resistant aluminium, epoxy-coated
TOTAL HEIGHT	Approx. 0.49 m
WEIGHT	Approx. 500 g
MOUNTING	On 16–54 mm dia. mast tube

MULTI-PURPOSE MOUNTING BRACKET:



- ① Mast tube D_i min = 30 mm
Mast tube D_o max = 54 mm
- ② Mast tube D_o max = 54 mm
Mast tube D_o min = 16 mm
- ③ Mast tube D_o max = 54 mm
Mast tube D_o min = 16 mm



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.

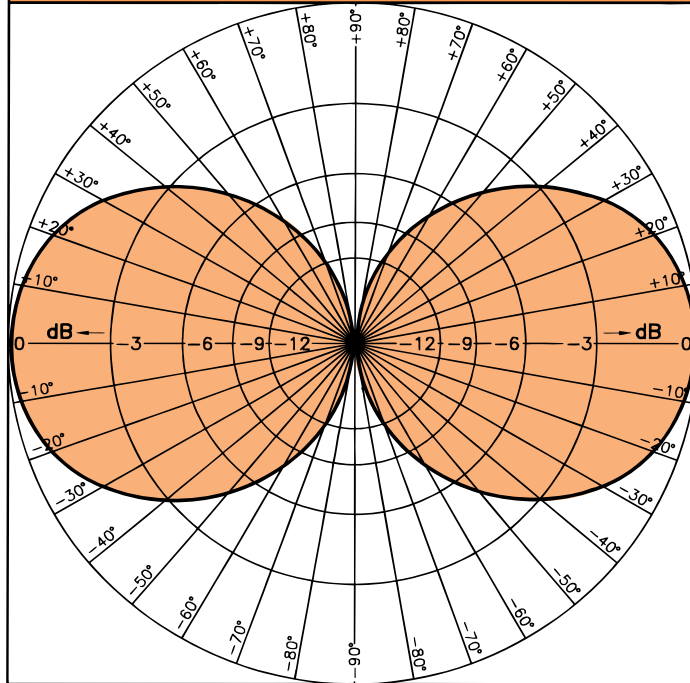
PROCOM A/S reserve the right to amend specifications without prior notice.

CXL 1800-1LW

Universal, 0 dBd Base Station and Marine
Antenna for the 1800 MHz Band



TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)

