

CXL 1800-6LW

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

DESCRIPTION

- Vertically polarized, omnidirectional base station and marine antenna.
- Approximately 6 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 glass fibre tube.
- All metal parts in the antenna are DC-grounded to reduce the noise caused by atmospheric discharge. Consequently, the antenna shows a DC-short across the coaxial cable.
- The CXL 1800-6LW is a vibration-proof, lightweight, slim-line, corrosion resistant, modern style base station and marine antenna.



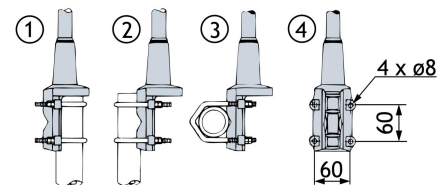
ORDERING DESIGNATIONS

TYPE	PRODUCT NO.
CXL 1800-6LW	100000180

SPECIFICATIONS

ELECTRICAL	
MODEL	CXL 1800-6LW
ANTENNA TYPE	Coaxial, collinear antenna, broad-banded
FREQUENCY	1700 – 1900 MHz
IMPEDANCE	Nom. 50 Ω
POLARIZATION	Vertical
GAIN	8 dBi 6 dBd
BAND WIDTH	≥ 200 MHz @ SWR ≤ 1.75
SWR	≤ 1.75, typ. ≤ 1.5
MAX. POWER	100 W
ANTISTATIC PROTECTION	All metal parts DC-grounded (Connector shows a DC-short)
MECHANICAL	
TEMP. RANGE	-30°C → +70°C
CONNECTOR	N-female
WIND SURFACE	Approx. 0.04 m ²
WIND LOAD	Approx. 51 N @ 160 km/h
COLOUR	Marine white
MATERIALS	Shroud: Polyurethane-coated glass fibre Mounting bracket: Seawater resistant aluminium, epoxy-coated Clamps: Stainless steel
TOTAL HEIGHT	Approx. 1.2 m
DIA. IN TOP END	21 mm
DIA. IN BOTTOM END	23 mm
WEIGHT	Approx. 900 g
MOUNTING	On 16 to 54 mm dia. mast tube

MULTI-PURPOSE MOUNTING BRACKET

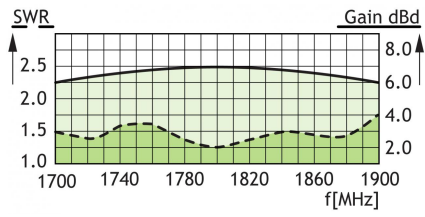


- Mast tube Di. min. = 30 mm
Mast tube Do. max. = 54 mm
- Mast tube Do. min. = 54 mm
Mast tube Do. max. = 16 mm
- Mast tube Do. max. = 54 mm
Mast tube Do. min. = 16 mm

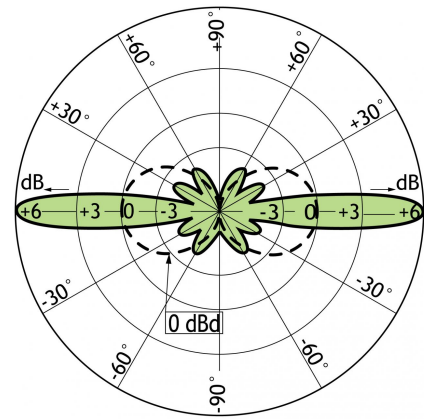
PLEASE NOTE

The antenna is delivered with a DC-connection between the antenna element and the mounting bracket.

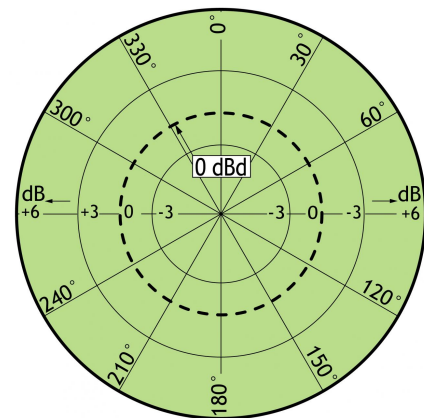
TYPICAL GAIN AND SWR CURVES



TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)



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06/10/11