6 dBd Omdirectional Base Station and Marine Antenna for the 2400 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 VSWR and gain.
- Highly suitable for duplex operation with large spacing between the Tx and the Rx frequencies.
- 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 atmospherical discharge. Consequently, the antenna shows a DC-short across the coaxial cable.
- The CXL 2400-6LW/… is a vibration-proof, lightweight, slim-line, corrosion resistant, modern style base station and marine antenna.

SPECIFICATIONS

Electrical	
Model	CXL 2400-6LW/...
Frequency	Models within 2200 - 2700 MHz
Antenna Type	Collinear, broad-band
Max. Input Power	100 W
Polarisation	Vertical
3 dB Beamwidth, E-Plane	9 °
3 dB Beamwidth, H-Plane	Omnidirectional
Impedance	50 Ω
Gain	6 dBd (8.2 dBi)
VSWR	< 2.0:1
Bandwidth	200 MHz
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)
HCM Code(s)	HCM000ND00, 004DE45

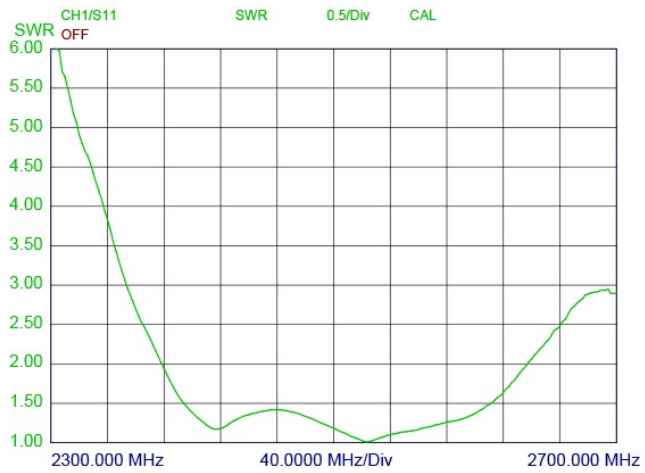
Mechanical	
Connection(s)	N(f)
Materials	Shroud: Polyurethane-coated glass fiber Mounting bracket: Seawater resistant aluminium, epoxy-coated Clamps: Stainless steel
Colour	White (RAL 9003)
Wind Area	0.033 sq. m / 0.36 sq. ft.
Wind Load	42 N (160km/h)
Dia. At Top End	21 mm / 0.83 in.
Dia. At Bottom End	23 mm / 0.91 in.
Height	Approx. 1000 mm / 39.37 in.
Weight	Approx. 0.8 kg / 1.76 lb.
Mounting	On 16 to 54 mm / 0.63 x 2.13 in. dia. mast tube

Environmental	
Operating Temperature Range	-30 °C to +70 °C
Survival Wind Speed	200 km/h
Ingress Protection	IP66

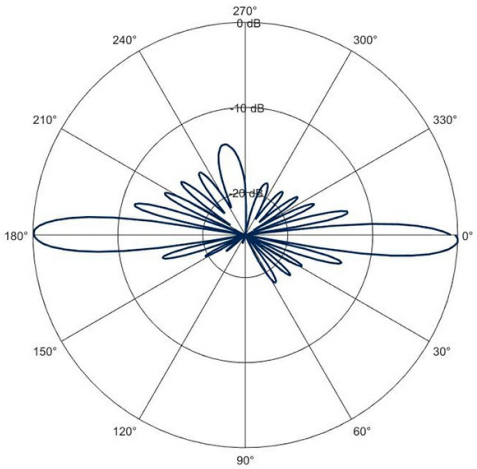
ORDERING

Model	Product No.	Frequency
CXL 2400-6LW/ll	100000412	2200 - 2300 MHz
CXL 2400-6LW/l	100000182	2300 - 2500 MHz
CXL 2400-6LW/m	100000185	2400 - 2600 MHz
CXL 2400-6LW/h	100000176	2500 - 2700 MHz

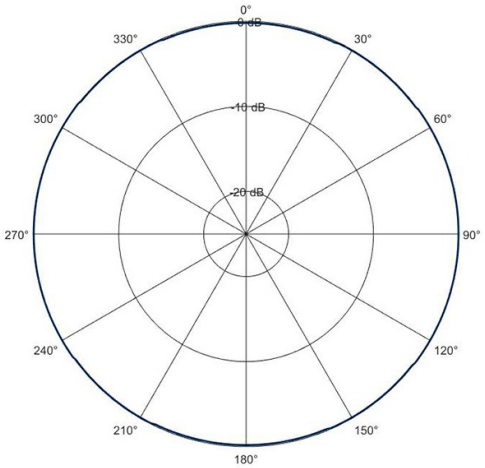
TYPICAL GAIN AND VSWR CURVES



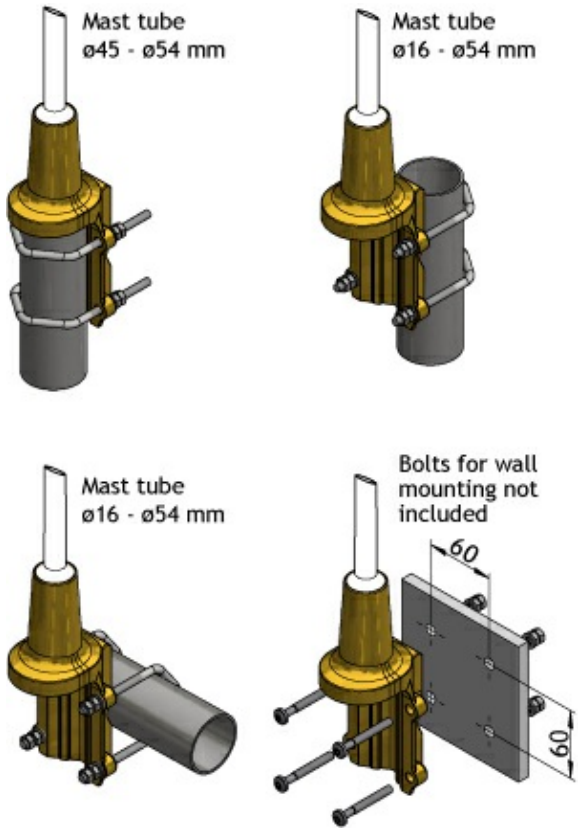
TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)



MULTI-PURPOSE MOUNTING BRACKET



PLEASE NOTE

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