

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

DESCRIPTION

- Vertically polarized, omnidirectional base station and marine antenna.
- Approximately 8 dBd gain.
- Provided with the “C” mounting bracket – a universal fixation bracket made of epoxy-coated seawater resistant aluminium.
- The accompanying U-bolts and fittings are made of stainless steel.
- To be mounted on mast tubes, 27 to 65 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, 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 atmospherical discharge. Consequently, the antenna shows a DC-short across the coaxial cable.
- The CXL 1800-8C is a vibration-proof, slim-line, corrosion resistant, modern style base station and marine antenna.



SPECIFICATIONS

Electrical	
Model	CXL 1800-8C
Frequency	1710 - 1880 MHz
Antenna Type	Collinear, broad-band
Max. Input Power	100 W
Polarisation	Vertical
3 dB Beamwidth, E-Plane	7 °
3 dB Beamwidth, H-Plane	Omnidirectional
Impedance	50 Ω
Gain	8 dBd (10.2 dBi)
Bandwidth	Approx. ≥ 200 MHz @ VSWR ≤ 1.75
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)
HCM Code(s)	HCM000ND00, 004DE60

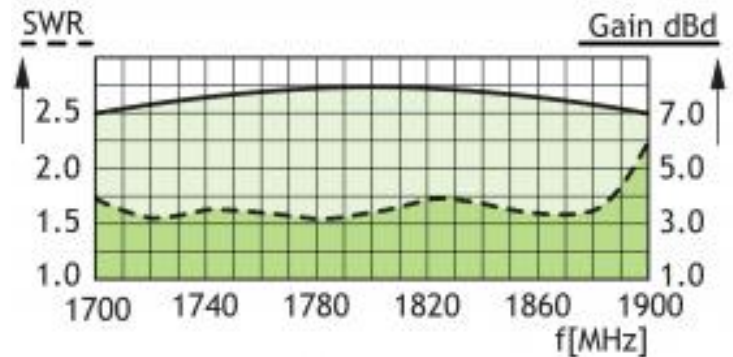
Mechanical	
Connection(s)	N(f)
Materials	Shroud : Polyurethane-coated glass fibre Mounting bracket : Seawater resistant aluminium, epoxy-coated Clamps : Stainless steel
Colour	White (RAL 9003)
Wind Area	0.04 sq. m / 0.43 sq. ft
Wind Load	51 N (160 km/h)
Dia. At Top End	20 mm / 0.79 in.
Dia. At Bottom End	23 mm / 0.91 in.
Height	Approx. 1500 mm / 59.06 in.
Weight	Approx. 1.5 kg / 3.31 lb.
Mounting	On 27 - 65 mm / 1.06 - 2.56 in. dia. mast tube

Environmental	
Operating temperature range	-30 °C to +70 °C
Ingress Protection	IP66

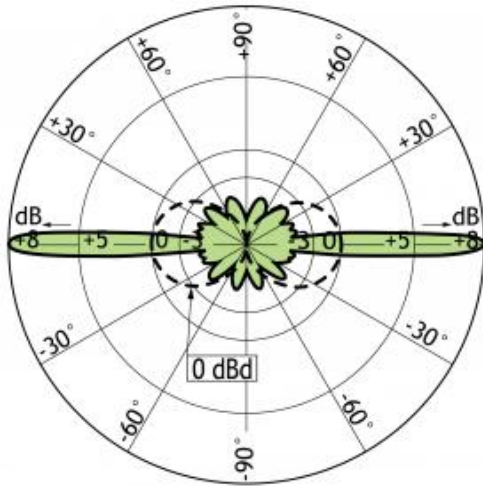
ORDERING

Model	Product No.
CXL 1800-8C	100000184

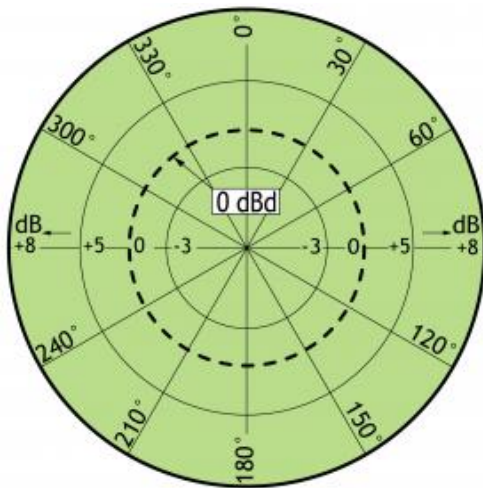
TYPICAL GAIN AND VSWR CURVE



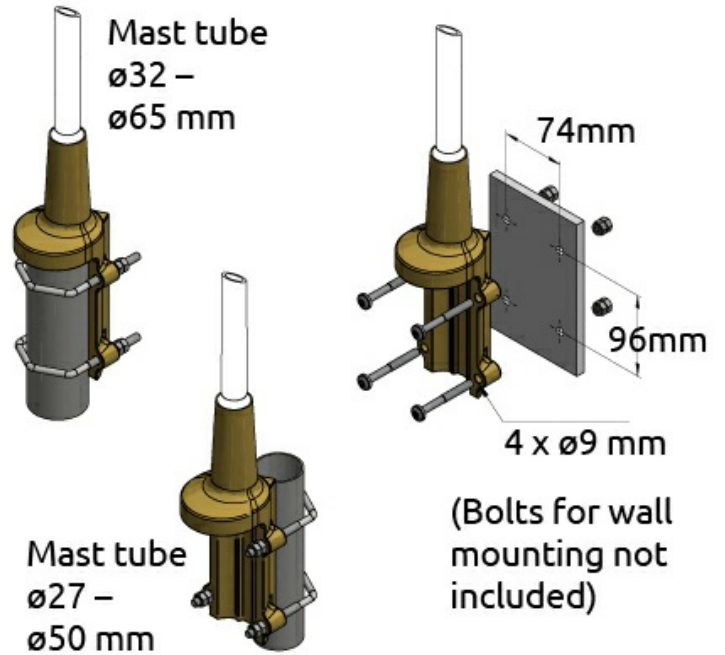
TYPICAL RADIATION PATTERN (E-PLANE)



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.

