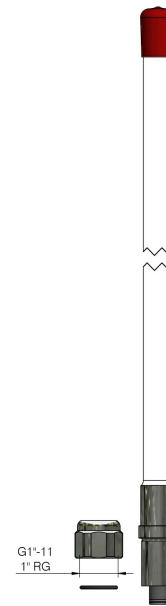


## 3 dBd Omnidirectional Base Station and Marine Antenna for the 1800 MHz Band

### DESCRIPTION

- > Vertically polarized, omnidirectional base station and marine antenna.
- > Approximately 3 dBd gain.
- > Simple mounting using the 1" revolving nut system.
- > Wide variety of accessory mounting brackets available.
- > 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, 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 1800-3 is a vibration-proof, lightweight, slim-line, corrosion resistant, modern style base station and marine antenna.



### SPECIFICATIONS

Electrical	
Model	CXL 1800-3
Frequency	1710 - 1880 MHz
Antenna Type	Collinear, broad-band
Max. Input Power	100 W
Polarisation	Vertical
3 dB Beamwidth, E-Plane	39 °
3 dB Beamwidth, H-Plane	Omnidirectional
Impedance	50 Ω
Gain	3 dBd (5.2 dBi)
VSWR	< 2.0:1
Bandwidth	≥ 170 MHz @ VSWR ≤ 2.0
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)
HCM Code(s)	HCM000ND00, 019DE25

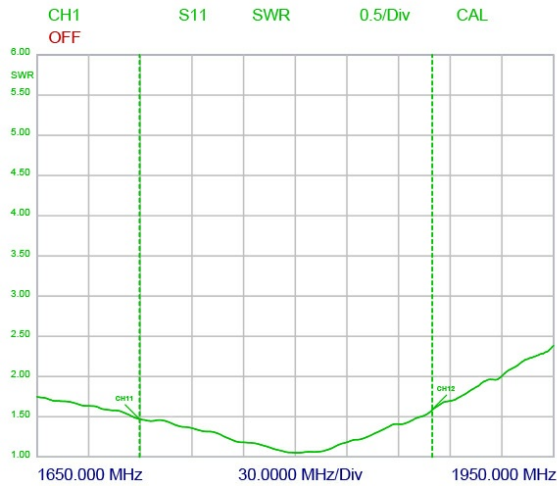
Mechanical	
Connection(s)	N(f)
Materials	Shroud : Polyurethane-coated glass fibre Mounting bracket : Chromed brass
Colour	White (RAL 9003)
Wind Area	0.013 sq. m / 0.14 sq. ft
Wind Load	15 N (160 km/h)
Dia. At Top End	23 mm / 0.91 in.
Dia. At Bottom End	23 mm / 0.91 in.
Height	Approx. 530 mm / 20.87 in.
Weight	Approx. 0.35 kg / 0.77 lb.
Mounting	On 1" RG (G1" - 11) threaded water pipe or on optional mounting brackets (see accessories )

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

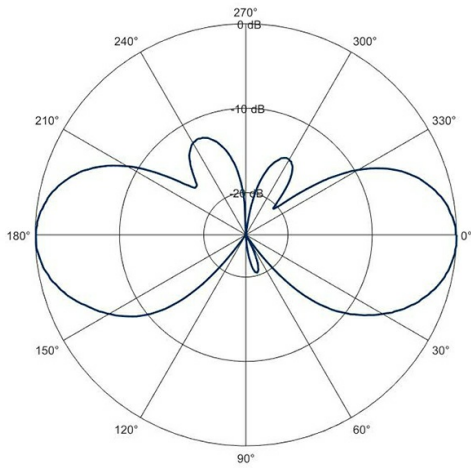
### ORDERING

Model	Product No.
CXL 1800-3	100000712

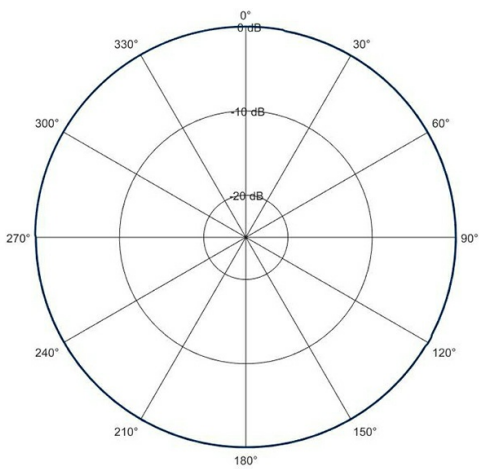
TYPICAL VSWR CURVE



TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)



ACCESSORIES (TO BE ORDERED SEPARATELY)

<p><b>FLG</b></p>	<p><b>SMR 1</b></p>	<p><b>SMR 2</b></p>	<p><b>YA-Bracket</b></p>
<p><b>LW-SS-1"</b></p>	<p><b>MariFix 1</b></p> <p>1"-14 UNS</p> <p>ALSO NEED ADT</p>	<p><b>MariFix 2</b></p> <p>1"-14 UNS</p> <p>ALSO NEED ADT</p>	<p><b>ADT</b></p> <p>1"-14 UNS</p>

