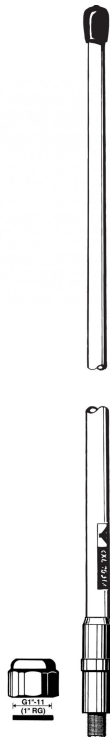


# CXL 1800-6

## 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.
- Simple mounting using the 1" revolving nut system.
- Wide variety of accessory mounting brackets available.
- 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 1800-6 is a vibration-proof, lightweight, slim-line, corrosion resistant, modern style base station and marine antenna.



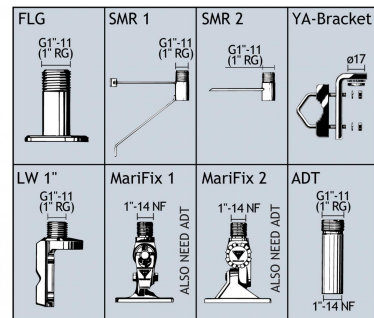
### ORDERING DESIGNATIONS

| TYPE       | PRODUCT NO. |
|------------|-------------|
| CXL 1800-6 | 100000186   |

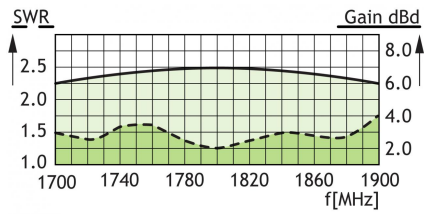
### SPECIFICATIONS

| ELECTRICAL            |  |
|-----------------------|--|
| MODEL                 | CXL 1800-6   |
| ANTENNA TYPE          | Coaxial, collinear antenna, broad-banded   |
| FREQUENCY             | 1700 – 1900 MHz  |
| IMPEDANCE             | Nom. 50 Ω  |
| POLARIZATION          | Vertical   |
| GAIN                  | 8 dBi 6 dBd  |
| BANDWIDTH             | ≥ 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. 0.03 m <sup>2</sup>  |
| WIND LOAD             | Approx. 38 N @ 160 km/h  |
| COLOUR                | Marine white   |
| MATERIALS             | Shroud: Polyurethane-coated glass fibre<br>Mounting bracket: Chromed brass         |
| TOTAL HEIGHT          | Approx. 1.15 m   |
| DIA. IN TOP END       | 21 mm  |
| DIA. IN BOTTOM END    | 23 mm  |
| WEIGHT                | Approx. 700 g  |
| MOUNTING              | On 1" RG (G1"-11) threaded water pipe or on optional mounting brackets (see below) |

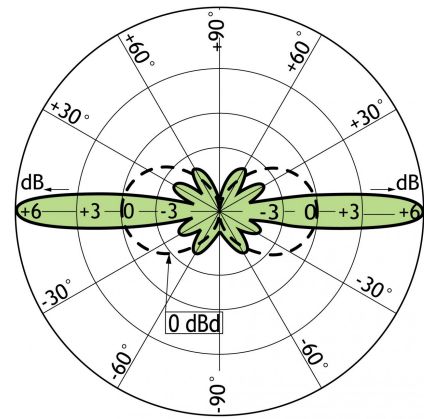
### ACCESSORIES (to be ordered separately)



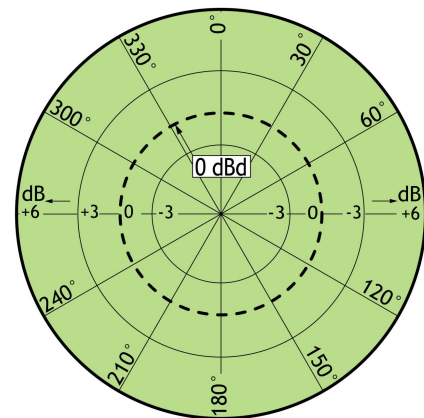
TYPICAL GAIN AND SWR CURVES



TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)



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03/10/11