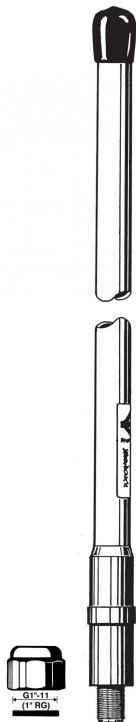


# CXL 1800-3

## 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 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 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.



### ORDERING DESIGNATIONS

TYPE	PRODUCT NO.
CXL 1800-3	100000188

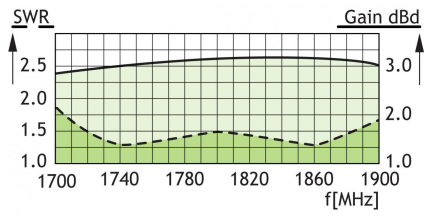
### SPECIFICATIONS

ELECTRICAL	
MODEL	CXL 1800-3
ANTENNA TYPE	Coaxial, collinear antenna, broad-banded
FREQUENCY	1710–1880 MHz
IMPEDANCE	Nom. 50 Ω
POLARIZATION	Vertical
GAIN	5 dBi 3 dBd
BANDWIDTH	≥ 170 MHz @ SWR ≤ 2.0
SWR	≤ 2.0, typ. ≤ 1.75
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. 0.009 m <sup>2</sup>
WIND LOAD	Approx. 11 N @ 160 km/h
COLOUR	Marine white
MATERIALS	Shroud: Polyurethane-coated glass fibre Mounting bracket: Chromed brass
TOTAL HEIGHT	Approx. 630 mm
DIA. IN TOP END	12 mm
DIA. IN BOTTOM END	16 mm
WEIGHT	Approx. 350 g
MOUNTING	On 1" RG (G1"-11) threaded water pipe or on optional mounting brackets (see below)

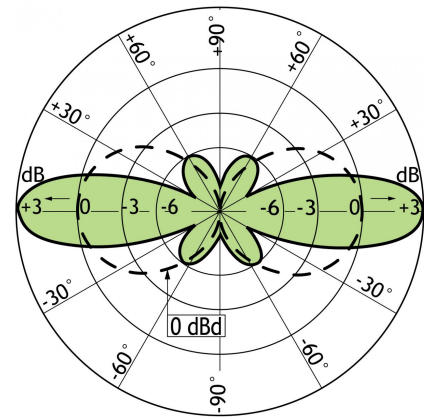
### ACCESSORIES (to be ordered separately)

<b>FLG</b> 	<b>SMR 1</b> 	<b>SMR 2</b> 	<b>YA-Bracket</b> 
<b>LW 1"</b> 	<b>MariFix 1</b> 	<b>MariFix 2</b> 	<b>ADT</b> 

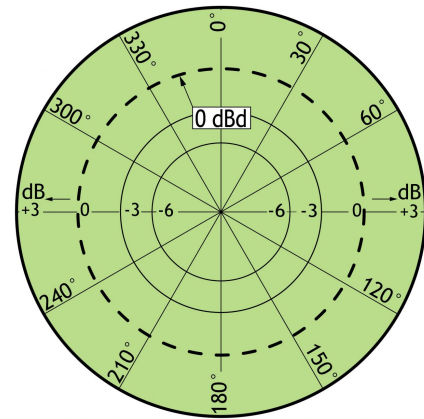
TYPICAL GAIN AND SWR CURVES



TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)



PROCOM France S.A.R.L. se réserve le droit d'améliorer les spécifications sans préavis.  
03/10/11