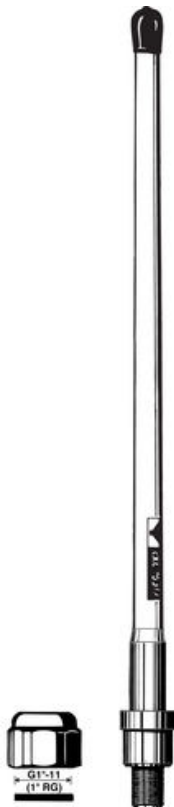


# CXL 1800-1/...

Unity Gain Base Station and Marine 1800 MHz Antenna for Mounting on Threaded 1" Water pipe

## DESCRIPTION

- The CXL 1800-1/... is a 0 dBd, vertically polarised, omnidirectional rod-type base station and marine antenna for the 1800 MHz band.
- The 1" revolving nut mounting system is standard throughout the base station and marine sector, and several different mounting brackets are available, making it possible to install the antenna either on the masthead using FLG or SMR 2, side-mounted on the mast (SMR1) or mounted on a cross-beam (FLG). Also, the antenna can be mounted on deck or rooftop by means of the FLG.
- The CXL 1800-1/... is especially suitable for use in connection with 1800 MHz CELLULAR systems – as for instance the DCS-1800/PCN system – making it possible to extend the normally land-based cellular telephone system for maritime mobile service as well.
- The higher the antenna is mounted, the better coverage. Avoid mounting the antenna parallel to or in the neighbourhood of other metal parts, such as masts, supporting wires etc., otherwise the SWR and the radiation pattern may be strongly influenced.
- To substantially reduce noise caused by atmospherical discharges, all metal parts in the antenna are DC-grounded. Consequently, the antenna shows a DC-short across the coaxial cable.
- A conical glass fibre tube completely encloses the carefully designed radiating element to ensure long dependable service in all climates.

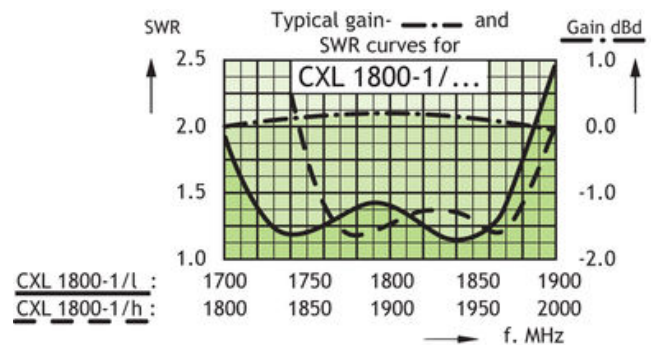


## ORDERING DESIGNATIONS

TYPE NO.	FREQUENCY
CXL 1800-1/l	1710 – 1880 MHz
CXL 1800-1/h	1850 – 2000 MHz

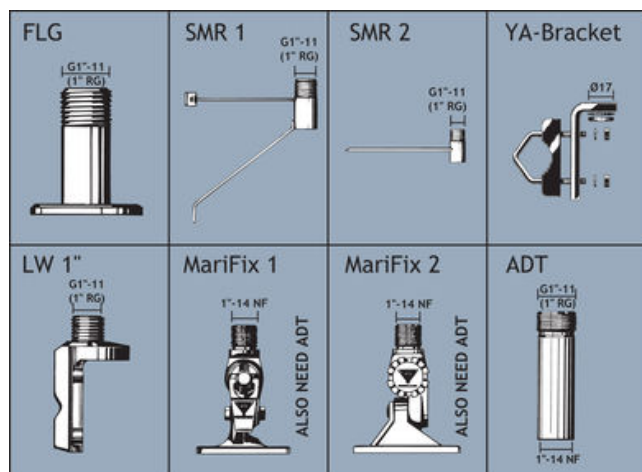
## SPECIFICATIONS

ELECTRICAL	
MODEL	CXL 1800-1/...
ANTENNA TYPE	1/2 λ coaxial dipole, broad-banded
FREQUENCY	l: 1710 – 1880 MHz h: 1850 – 2000 MHz
IMPEDANCE	Nom. 50 Ω
POLARISATION	Vertical
GAIN	2 dBi 0 dBd
BAND WIDTH	≥ 170 MHz @ SWR ≤ 2.0
SWR	≤ 2.0
MAX. POWER	100 W
MECHANICAL	
TEMP. RANGE	-30°C → +70°C
CONNECTOR	N-female
WIND SURFACE	Approx. 0.0070 m²
WIND LOAD	Approx. 9 N @ 160 km/h
COLOUR	Marine white
MATERIALS	Shroud: Polyurethane coated glass fibre Mounting bracket: Chromed brass
TOTAL HEIGHT	Approx. 420 mm
DIA. IN TOP END	13 mm
DIA. IN BOTTOM END	16 mm
WEIGHT	Approx. 250 g
MOUNTING	On 1" RG (G1"-11) threaded water pipe or on optional mounting brackets (see below)

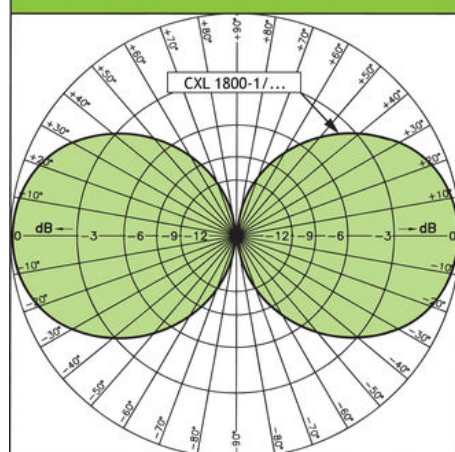


## ACCESSORIES

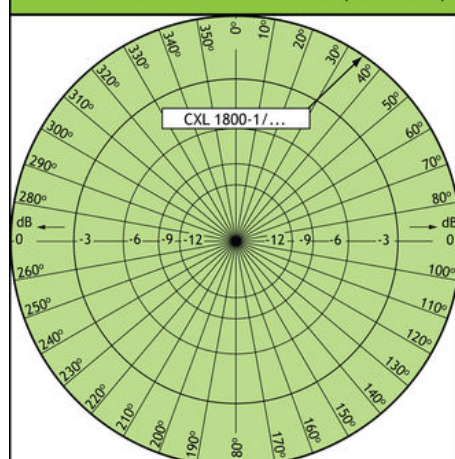
(to be ordered separately)



TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)



PROCOM A/S reserve the right to amend specifications without prior notice.

06/05/2009