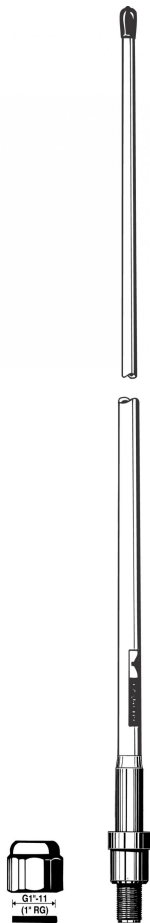


# CXL 3-1

## Unity-Gain, Omnidirectional Base Station Antenna for the International Aircraft Band

### DESCRIPTION

- CXL 3-1 is a 0 dBd, vertically polarized, omnidirectional base station antenna for the 118 - 137 MHz civil aircraft band.
- The antenna is a broad-banded  $\frac{1}{2} \lambda$  dipole design.
- The antenna can be mounted on threaded 1" water pipe using the supplied 1" revolving nut. In this way, a nice, slim installation is obtained.
- A wide variety of accessory mounting hardware (see below) gives ample choice regarding alternative ways of installation.
- To substantially reduce noise caused by atmospheric 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 with very low wind-loading completely encloses the carefully designed radiating element to ensure long dependable service in all climates.



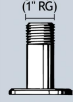
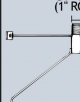
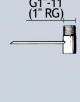





### ORDERING DESIGNATIONS

TYPE	PRODUCT NO.
CXL 3-1	10000068

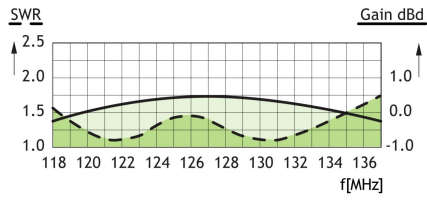
### SPECIFICATIONS

ELECTRICAL	
MODEL	CXL 3-1
ANTENNA TYPE	$\frac{1}{2} \lambda$ coaxial dipol, broad-banded
FREQUENCY	Covering: 118 - 137 MHz
IMPEDANCE	Nom. 50 $\Omega$
RADIATION	Omnidirectional
POLARIZATION	Vertical
GAIN	2 dBi 0 dBd
BANDWIDTH	19 MHz
SWR	$\leq 1.75$
MAX. POWER	150 W
ANTISTATIC PROTECTION	All metal parts DC-grounded (Connector shows a DC-short)
MECHANICAL	
CONNECTOR	UHF-female (fitting PL-259)
WIND SURFACE	0.023 m <sup>2</sup>
WIND LOAD	29 N @ 160 km/h
MAX WIND SPEED	Tested to 200 km/h
COLOUR	Marine white
MATERIALS	Radome: Polyurethane-coated glass fibre Mounting hardware: Bright chromed brass
TOTAL HEIGHT	Approx. 1.5 m
WEIGHT	Approx. 0.85 kg
MOUNTING	On 1" RG (G1" - 11) threaded water pipe or on optional mounting brackets (see below)

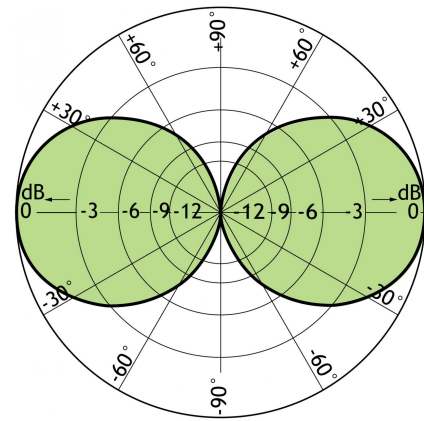
### ACCESSORIES (to be ordered separately)

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

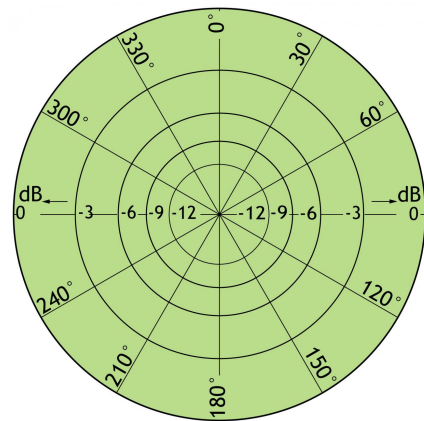
TYPICAL GAIN AND SWR CURVES



TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)



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

16/09/13