

CXL 900-1LW/...

Universal, 0 dBd Base Station and Marine Antenna for the 900 MHz Band

DESCRIPTION

- CXL 900-1LW/... is a 0 dBd, vertically polarized, omnidirectional base station and marine antenna, which covers the 900 MHz band in three models.
- Provided with the sturdy "LW" mast mount – a lightweight, multipurpose, epoxy-coated mounting bracket made of non-corrosive aluminium.
- The accompanying U-bolts and fittings are made of stainless steel.
- To be mounted on vertical or horizontal mast tubes, 16 to 54 mm in outer diameter.
- The cable can be led either on the outside or along the inside of the mast tube.
- Large bandwidth with respect to both SWR and gain.
- The carefully designed, broad-banded antenna element is sealed in a high-quality, conical glass fibre tube with low wind-load, which will ensure performance undisturbed by corrosive environments.
- 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.
- The CXL 900-1LW/... is a vibration-proof, lightweight, slim-line, corrosion resistant, modern style base station and marine antenna.



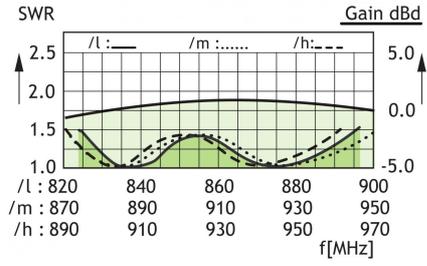
ORDERING DESIGNATIONS

TYPE	PRODUCT NO.	FREQUENCY
CXL 900-1LW/l	110000103	824 – 894 MHz
CXL 900-1LW/m	110000102	870 – 950 MHz
CXL 900-1LW/h	110000098	890 – 960 MHz

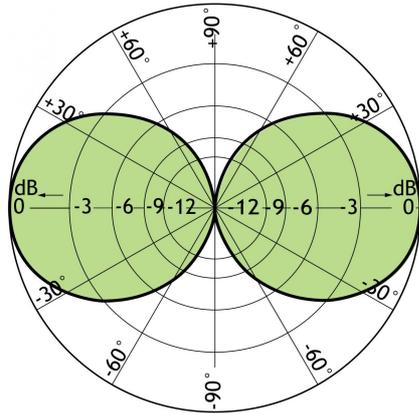
SPECIFICATIONS

ELECTRICAL	
MODEL	CXL 900-1LW/...
ANTENNA TYPE	½ λ coaxial dipole, broad-banded
FREQUENCY	Models within 824 – 960 MHz
IMPEDANCE	Nom. 50 Ω
RADIATION	Omnidirectional
POLARIZATION	Vertical
GAIN	2 dBi 0 dBd
BANDWIDTH	70 – 80 MHz
SWR	≤ 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. 0.018 m ²
WIND LOAD	23 N @ 160 km/h
COLOUR	Marine white
MATERIALS	Shroud: Polyurethane-coated glass fibre Mounting bracket: Seawater resistant aluminium, epoxy-coated Clamps: Stainless steel
TOTAL HEIGHT	Approx. 490 mm
DIA. IN TOP END	13 mm
DIA. IN BOTTOM END	16 mm
WEIGHT	Approx. 560 g
MOUNTING	On 16 to 54 mm dia. mast tube

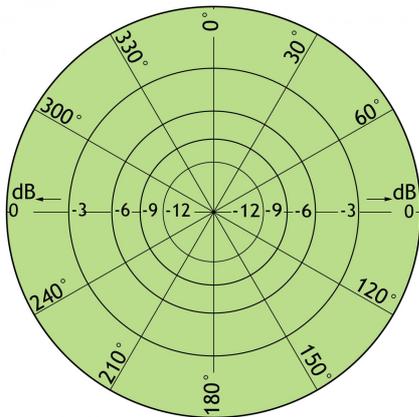
TYPICAL GAIN AND SWR CURVES



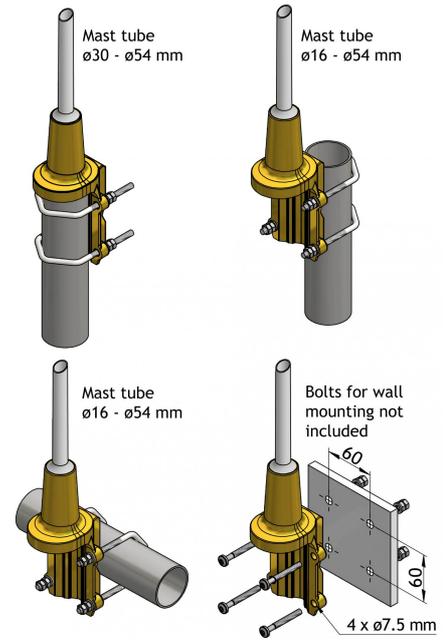
TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)



MULTI-PURPOSE MOUNTING BRACKET



PLEASE NOTE

The antenna is delivered with a DC-connection between the antenna element and the mounting bracket.



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

02/06/15