

CXL 150-1LW-SS-R/...

Universal, Unity-Gain Base Station and Marine Antenna for the 160 MHz Band

DESCRIPTION

- The broad-banded $\frac{1}{2} \lambda$ dipole antenna element is sealed in a high-quality conical glass fibre tube with low wind-load, which will ensure undisturbed performance by corrosive environments.
- The new LW-SS Mount is made from a High Strength low Carbon Steel Alloy well suited for extreme marine environments due to its superior resistance to corrosion.
- 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.
- CXL 150-1LW-SS-R/... is DC-grounded to substantially reduce noise caused by atmospherical discharges and consequently shows a DC-short across the coaxial cable.
- The CXL 150-1LW-SS-R/... is a vibration-proof, lightweight, slim-line, corrosion-resistant, modern style base station and marine antenna.
- This multi-purpose, omnidirectional, 0 dBd, rod-type base station and marine antenna covers the 160 MHz band in three models with 10 MHz overlap and can be used in a wide variety of applications.
- The antenna mount is made from a High Strength low Carbon Steel Alloy.

ORDERING DESIGNATIONS

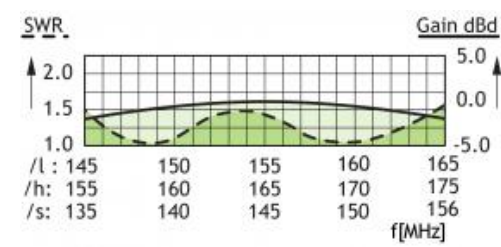
TYPE	FREQUENCY	PRODUCT NO.
CXL 150-1LW-SS-R/s	138 - 156 MHz	110000374
CXL 150-1LW-SS-R/I	146 - 165 MHz	110000375
CXL 150-1LW-SS-R/h	155 - 175 MHz	110000376



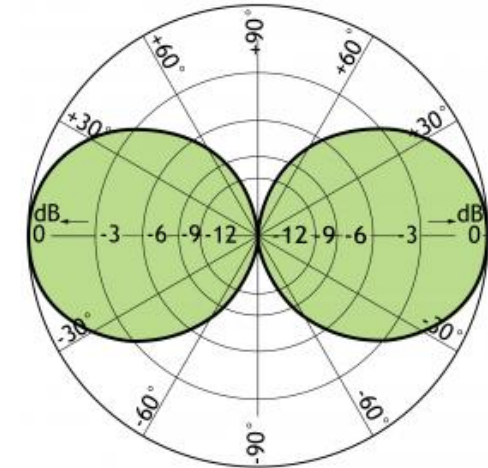
SPECIFICATIONS

ELECTRICAL	
MODEL	CXL 150-1LW-SS-R/...
ANTENNA TYPE	$\frac{1}{2} \lambda$ coaxial dipol, broad-banded
FREQUENCY	
CXL 150-1LW-SS-R/s	138 - 156 MHz
CXL 150-1LW-SS-R/I	146 - 165 MHz
CXL 150-1LW-SS-R/h	155 - 175 MHz
IMPEDANCE	Nom. 50 Ω
RADIATION	Omnidirectional
POLARIZATION	Vertical
GAIN	2 dBi 0 dBd
BANDWIDTH	18 - 21 MHz depending on model
HALF POWER BEAMWIDTH	80°
SWR:	
CXL 150-1LW-SS-R/s	138 - 156 MHz ≤ 1.5
CXL 150-1LW-SS-R/I	146 - 163 MHz ≤ 1.5 146 - 165 MHz ≤ 1.75
CXL 150-1LW-SS-R/h	156 - 174 MHz ≤ 1.5 155 - 175 MHz ≤ 1.75
MAX. POWER	150 W
ANTISTATIC PROTECTION	All metal parts DC-grounded (Connector shows a DC-short)
HCM CODE	HCM000ND00, 040DE00
MECHANICAL	
CONNECTOR	N-female
WIND SURFACE	0.022 m ² / 0.24 ft ²
WIND LOAD	32 N @ 160 km/h / 99.42 mph.
MAX. WIND SPEED	Tested to 200 km/h / 124.27 mph.
COLOUR	White (RAL 9003)
MATERIALS	Radome: Polyurethane-coated glass fibre Mounting bracket: Stainless acid-proof steel (AISI 316L) U-bolt and fittings: Stainless steel (AISI 304)
TOTAL HEIGHT	Approx. 1.3 m / 51.18 in. (Dep. on frequency)
DIA. IN TOP END	17 mm / 0.67 in.
DIA. IN BOTTOM END	23 mm / 0.91 in.
WEIGHT	Approx. 1.0 kg / 2.20 lb.
MOUNTING	On 16 to 54 mm / 0.63 x 2.13 in.dia. mast tube
ENVIRONMENTAL	
TEMP. RANGE	-30° C \rightarrow +70° C
IP RATING	IP 66

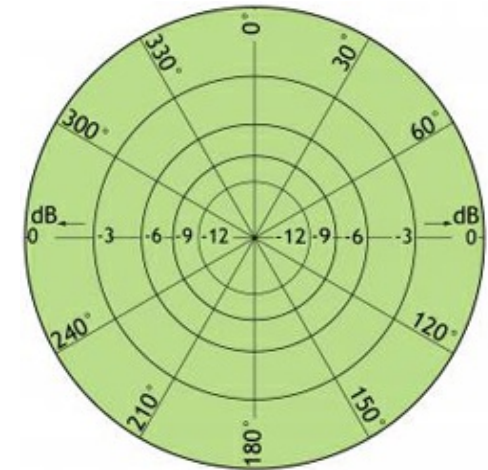
TYPICAL GAIN AND SWR CURVES



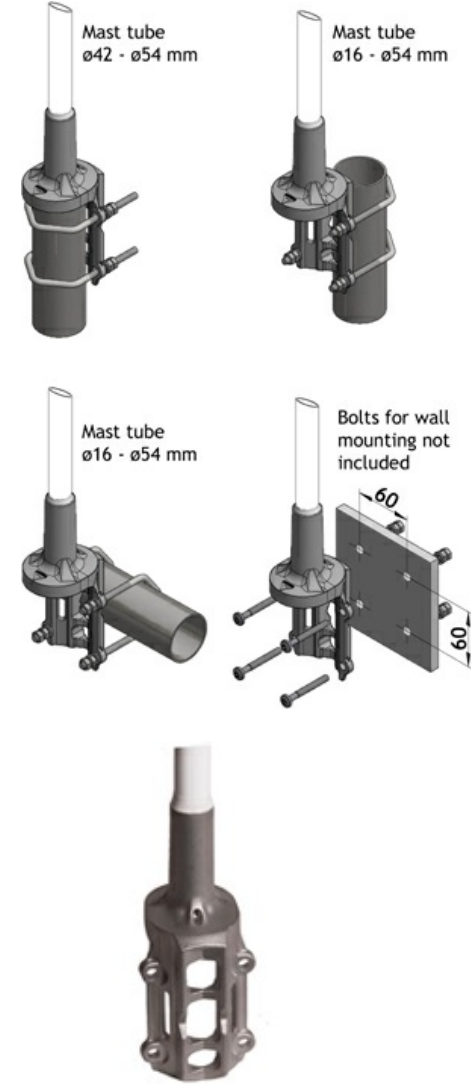
TYPICAL RADIATION PATTERN (E-PLANE)



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.