



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

UNIVERSAL, UNITY-GAIN BASE STATION AND MARINE ANTENNA FOR THE 160 MHz BAND

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

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

- 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/l	146 - 165 MHz	110000375
CXL 150-1LW-SS-R/h	155 - 175 MHz	110000376

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 it's 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.



SPECIFICATIONS

ELECTRICAL	
MODEL	CXL 150-1LW-SS-R/...
ANTENNA TYPE	½ λ coaxial dipol, broad-banded
FREQUENCY	CXL 150-1LW-SS-R/s: 138 - 156 MHz CXL 150-1LW-SS-R/l: 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
SWR	CXL 150-1LW-SS-R/s : 138 - 156 MHz □ 1.5
	CXL 150-1LW-SS-R/l: 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

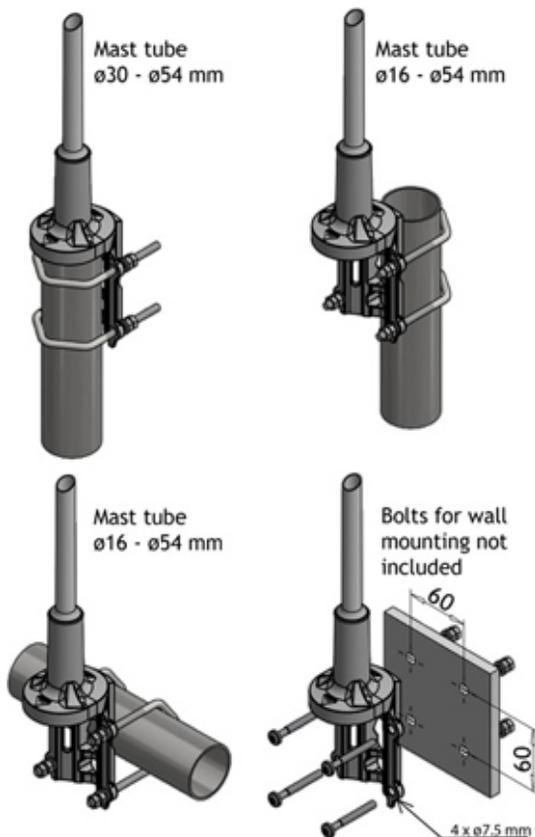
MAX. POWER150 W
STATIC PROTECTIONAll metal parts DC-grounded (Connector shows a DC-short)
MECHANICAL TEMP. RANGE-30° C → 70° C
CONNECTORN-female
WIND SURFACE0.022 m² / 0.24 ft²
WIND LOAD32 N @ 160 km/h / 99.42 mph.
MAX. WIND SPEEDTested to 200 km/h / 124.27 mph.
INGRESS PROTECTION LEVELIP66
COLOURMarine white
MATERIALSRadome: Polyurethane-coated glass fibre
 Mounting bracket: Stainless acid-proof steel U-bolt and fittings: Stainless steel
TOTAL HEIGHTApprox. 1.3 m / 51.18 in. (Dep. on frequency)
DIA. IN TOP END17 mm / 0.67 in.
DIA. IN BOTTOM END23 mm / 0.91 in.
WEIGHTApprox. 1.0 kg / 2.20 lb.
MOUNTING
 On 16 to 54 mm / 0.63 x 2.13 in.dia.mast tube



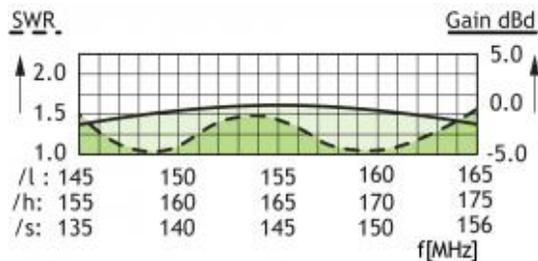
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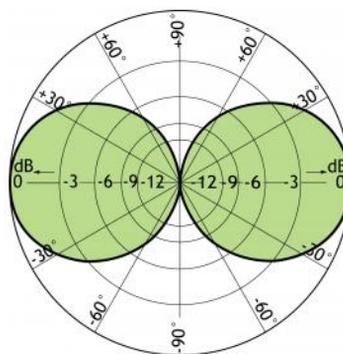
MULTI-PURPOSE MOUNTING BRACKET



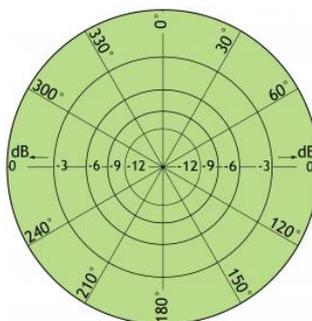
TYPICAL GAIN AND SWR CURVES



TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)



PLEASE NOTE

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

