

CXL 2-5HD/...

Sturdy, 5 dBd Gain, Base Station Antenna for the 160 MHz Band



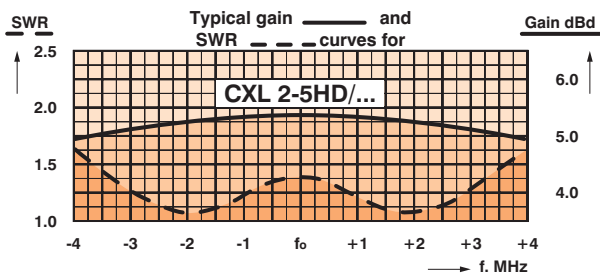
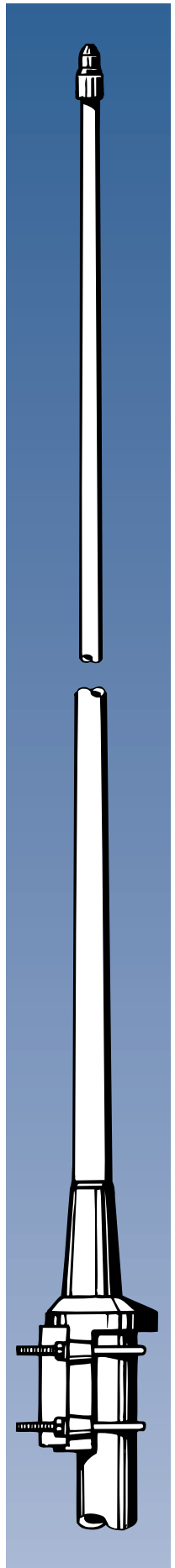
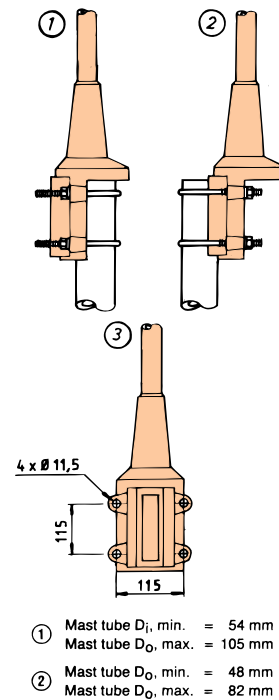
DESCRIPTION:

- ★ CXL 2-5HD/... is a 5 dBd, vertically polarised, omnidirectional base station antenna.
- ★ The antenna has a bandwidth of 7 MHz. Please specify centre frequency or duplex TX and RX when ordering.
- ★ The antenna is provided with our sturdy type "HD" mast mount, which is a heavy-duty, multipurpose mounting bracket made of non-corrosive aluminium. The accompanying U-bolts and fittings are made of stainless steel.
- ★ The antenna can be mounted on mast tubes of 58 to 105 mm in outer diameter. Further, the construction of the mount makes it possible to lead the cable either along the inside or on the outside of the mast tube.
- ★ In designing this antenna, special emphasis has been laid on obtaining a large bandwidth both in relation to SWR and gain. The phasing of the radiating elements is carefully adjusted to yield maximum gain in the horizontal plane, with the level of the sidelobes reduced to a minimum.
- ★ The antenna element is sealed in a high-quality, conical glassfiber tube with low wind-load, which will ensure undisturbed performance in all climates.
- ★ 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.
- ★ CXL 2-5HD/... is a vibration-proof, lightweight, slim-line, corrosion-resistant, modern style base station antenna.

SPECIFICATIONS:

ELECTRICAL	
MODEL	CXL 2-5HD/...
ANTENNA TYPE	High-gain colinear
FREQUENCY	7 MHz wide frequency segments within the 144-175 MHz range. Please specify centre frequency, or duplex TX and RX
IMPEDANCE	Nom. 50 Ω
RADIATION	Omnidirectional
POLARISATION	Vertical
GAIN	7 dBi 5 dBd
HALF POWER BEAMWIDTH	Approx. 18°
BAND WIDTH	7 MHz
SWR	≤ 1.5
MAX. POWER	500 watts
ANTISTATIC PROTECTION	All metal parts DC-grounded (Connector shows a DC-short)
MECHANICAL	
CONNECTOR	N-female
WIND SURFACE	0.382 m ²
WIND LOAD	483 N @ 160 km/h
BENDING TORQUE	Below "HD"-bracket, at 150 km/h: Approx. 1.27 kNm
COLOUR	Marine white
MATERIALS	Radome : Polyurethane coated fiberglass Mounting bracket : Seawater resistant aluminium, polyester coated
TOTAL HEIGHT	Approx. 6.6 m (Dep. on frequency)
WEIGHT	Approx. 10 kg
MOUNTING	On 58-105 mm dia. mast tube

MULTI-PURPOSE MOUNTING BRACKET:



PLEASE NOTE:

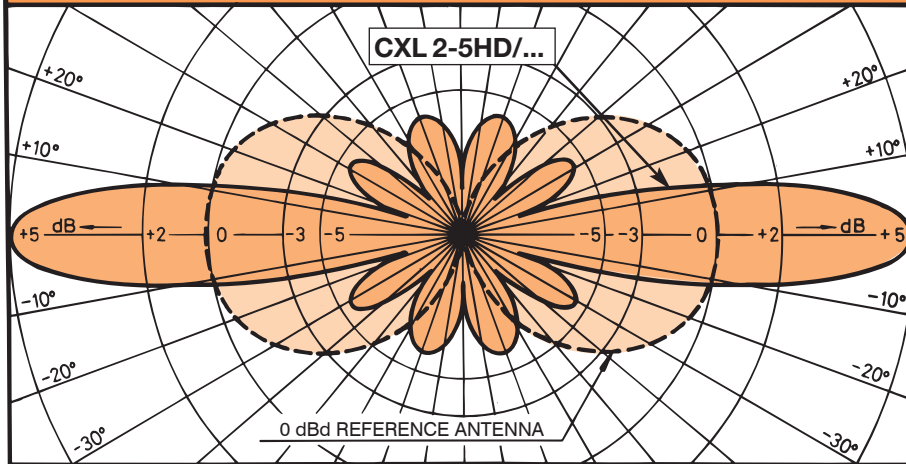
When using the CXL 2-5HD/... at windy locations where wind speeds of more than 150 km/h can be expected, the antenna must be mounted on the side of the mast and the top section of the glassfiber tube stabilized with a bracket.

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

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TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)

