

CXL 70-5HD/...-PT

Sturdy, 5 dBd, Omnidirectional Base Station Antenna for the TETRA Bands

DESCRIPTION

- CXL 70-5HD/...-PT is an 5 dBd, vertically polarised, omnidirectional base station antenna for the TETRA bands.
- The antenna has a band width of 20 MHz.
- The antenna has been approved to withstand lightning (10/350 μ s impulses/100 kA) according to EN 61643-11, VDE 0855-300 and VDE 0185-305-114 in FH-Kiel Laboratory in Germany
- 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.
- The antenna element is sealed in a high-quality, conical glass fibre tube with low wind-load, which will ensure performance undisturbed 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 70-5HD/...-PT is a vibration-proof, slim-line, corrosion-resistant, modern style base station antenna.



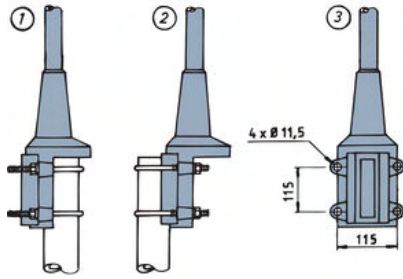
SPECIFICATIONS

| ELECTRICAL | |
|-----------------------|---|
| MODEL | CXL 70-5HD/...-PT |
| ANTENNA TYPE | High-gain colinear |
| FREQUENCY | 380 - 400 MHz and 410 - 430 MHz |
| IMPEDANCE | Nom. 50 Ω |
| RADIATION | Omnidirectional |
| POLARISATION | Vertical |
| GAIN | 7 dBi 5 dBd |
| HALF POWER BEAMWIDTH | 15° |
| BAND WIDTH | 20 MHz |
| SWR | ≤ 1.5 |
| MAX. POWER | 250 W |
| ANTISTATIC PROTECTION | All metal parts DC-grounded (Connector shows a DC-short) |
| MECHANICAL | |
| TEMP. RANGE | -30°C \rightarrow +70°C |
| CONNECTOR | N-female |
| WIND SURFACE | 0.21 m ² |
| WIND LOAD | 274 N @ 160 km/h |
| WIND VELOCITY | Tested to 200 km/h |
| COLOUR | Marine white |
| MATERIALS | Radome: Polyurethane coated glass fibre Mounting bracket: Seawater resistant aluminium, polyester coated |
| TOTAL HEIGHT | Approx. 3.2 m |
| WEIGHT | Approx. 6 kg |
| MOUNTING | On 58 - 105 mm dia. mast tube |

PLEASE NOTE

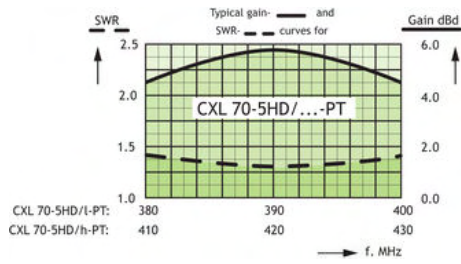
When using the CXL 70-5HD/...-PT at windy locations where wind speeds of more than 150 km/h can be expected, the antenna must be mounted on the side of the mast and the top section of the glass fibre tube stabilized with a bracket.

MULTI-PURPOSE MOUNTING BRACKET

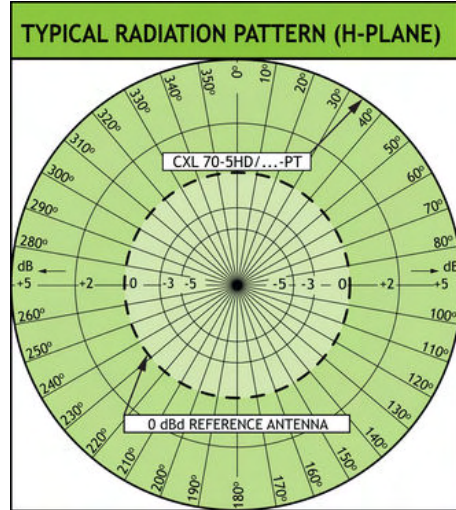
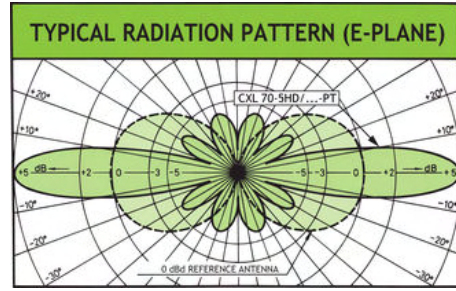


- ① Mast tube D_i , min. = 54 mm
Mast tube D_o , max. = 105 mm
- ② Mast tube D_o , min. = 48 mm
Mast tube D_o , max. = 82 mm

TYPICAL GAIN AND SWR CURVES



TYPICAL RADIATION PATTERN



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

15/06/2009