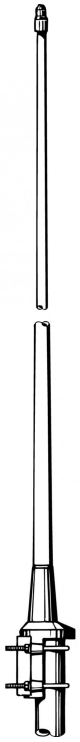
CXL 70-5HD/...

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

DESCRIPTION

- CXL 70-5HD/... is an 5 dBd, vertically polarized, omnidirectional base station antenna for the TETRA bands.
- The antenna has a band width of 20 MHz.
- 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/... is a vibration-proof, slim-line, corrosion-resistant, modern style base station antenna.



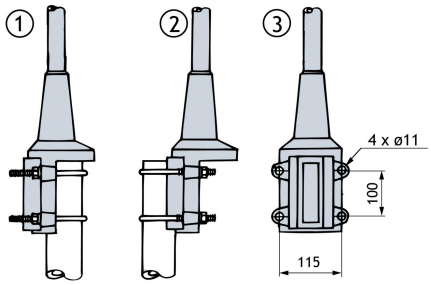
ORDERING DESIGNATIONS

TYPE	PRODUCT NO.	FREQUENCY
CXL 70-5HD/l	100000124	380 - 400 MHz
CXL 70-5HD/h	100000235	410 - 430 MHz

SPECIFICATIONS

ELECTRICAL	
MODEL	CXL 70-5HD/...
ANTENNA TYPE	High-gain collinear
FREQUENCY	380 - 400 MHz and 410 - 430 MHz
IMPEDANCE	Nom. 50 Ω
RADIATION	Omnidirectional
POLARIZATION	Vertical
GAIN	7 dBi 5 dBd
HALF POWER BEAMWIDTH	15°
BANDWIDTH	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 → +70°C
CONNECTOR	N-female
WIND SURFACE	0.21 m²
WIND LOAD	274 N @ 160 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

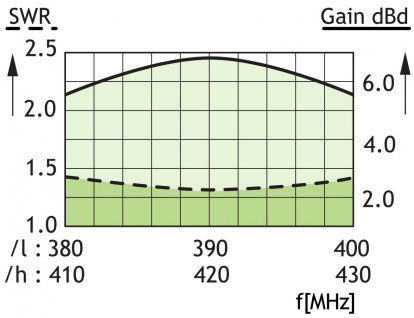
MULTI-PURPOSE MOUNTING BRACKET



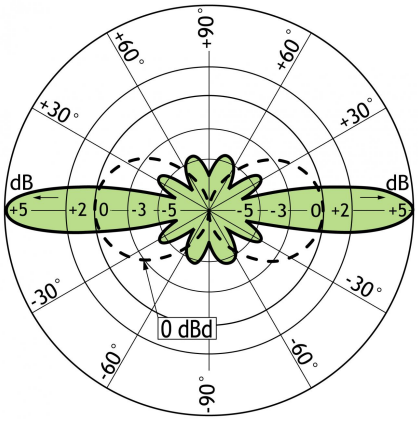
PLEASE NOTE

When using the CXL 70-5HD/... 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 glass fibre tube stabilized with a bracket.

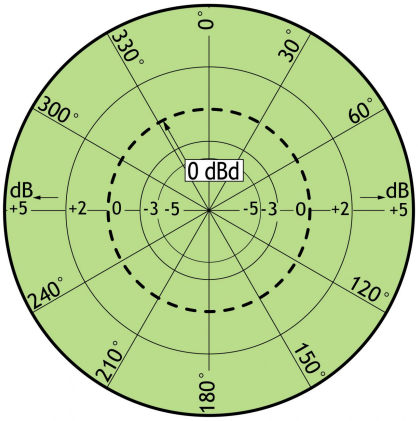
TYPICAL GAIN AND SWR CURVES



TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)



PROCOM France S.A.R.L. se réserve le droit d'améliorer les spécifications sans préavis.

18/12/14