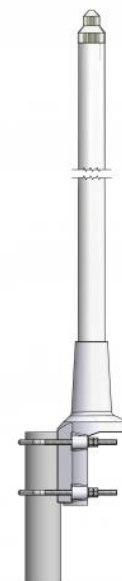


## Sturdy, 0 dBd, Omnidirectional lightning protected Base Station Antenna for the 144 - 175 MHz Bands

### DESCRIPTION

- CXL 2-1HD-PT is 0 dBd, vertically polarized, omnidirectional base station antenna for the entire 2 m band.
- The antenna has been approved to withstand lightning (10/350  $\mu$ s impulses/150 kA) according to EN 62305-1.
- The antenna is provided with our sturdy type "HD" mast mount - 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. Furthermore, 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, ensuring 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.
- Also available with UHF connector.
- Grounding conductors is to be chosen in accordance with IEC 62305-3.



### ORDERING

Type	Product No.	Frequency
CXL 2-1HD-PT	100000515	144 - 175 MHz
CXL 2-1HD-PT UHF	100000531	144 - 175 MHz

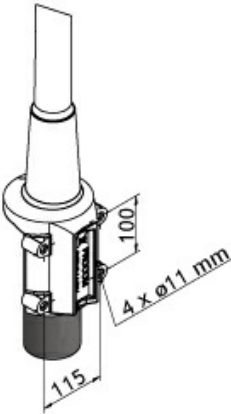
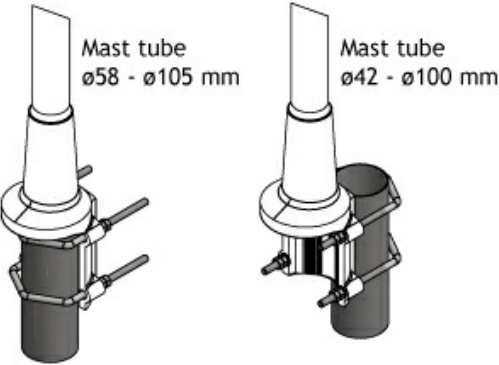
### SPECIFICATIONS

Electrical	
Model	CXL 2-1HD-PT
Frequency	144 - 175 MHz
Antenna Type	Coaxial dipole, broad-banded
Max. Input Power	150 W
Polarisation	Vertical
3 dB Beamwidth, E-Plane	80 °
3 dB Beamwidth, H-Plane	Omnidirectional
Impedance	50 $\Omega$
Gain	0 dBd (2.2 dBi)
VSWR	< 1.75:1
Lightning Protection	150 kA (Test pulse 10/350 $\mu$ s)
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)
HCM Code(s)	

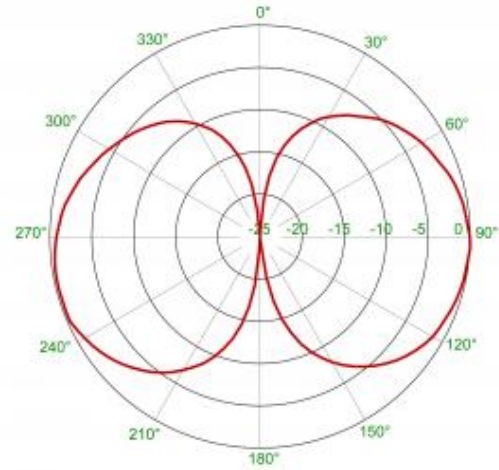
Mechanical	
Connection(s)	N(f)
Materials	Radome : Polyurethane-coated glass fibre Mounting bracket : Seawater resistant aluminium, epoxy-coated
Colour	White (RAL 9003)
Wind Area	0.077 sq. m / 0.83 sq. ft
Wind Load	90 N (160km/h)
Height	1500 mm / 59.06 in.
Weight	5.8 kg / 12.79 lb
Mounting	On 58 - 105 mm dia. mast tube

Environmental	
Operating Temperature Range	-30°C to +70°C
Survival Wind Speed	200 km/h

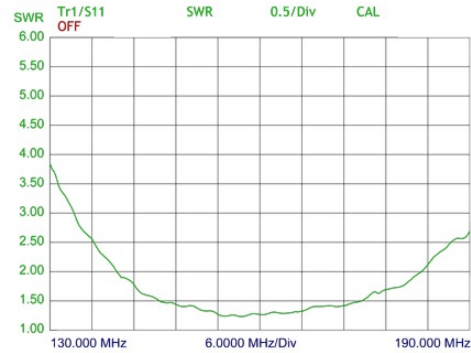
MULTI-PURPOSE MOUNTING BRACKET



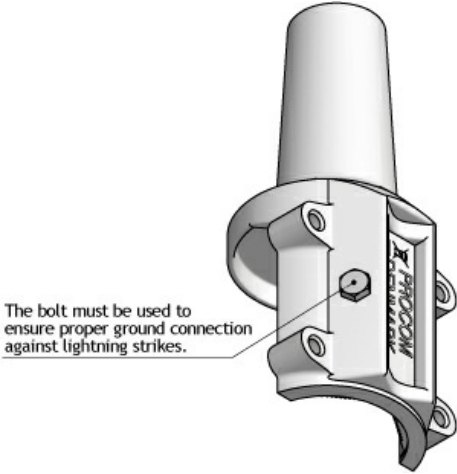
TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL SWR CURVES



MOUNTING DESCRIPTION FOR GROUND CONNECTION



TYPICAL RADIATION PATTERN (H-PLANE),

