

## Dual-frequency, Base Station Antenna for the 160 MHz and 450 MHz Bands

### DESCRIPTION

- > CXL 2/70C is a dual-frequency base station antenna - two bands with only one antenna.
- > This antenna makes it possible to:
  - > operate 160 and 450 MHz transceivers alternately on the same antenna
  - > operate two transceivers (160 and 450 MHz) at the same time on one antenna using a diplexer (type DIPX 225/330 - must be ordered separately).
- > CXL 2/70C is designed for fixation on supporting tubes with outer diameter between 27 mm and 65 mm.
- > The construction of the mount makes it possible to lead the cable either inside or along the outside of the mast tube.
- > Atmospheric discharges are immediately led to ground as all metal parts are DC-grounded (consequently, the antenna shows a DC-short across the coaxial cable).

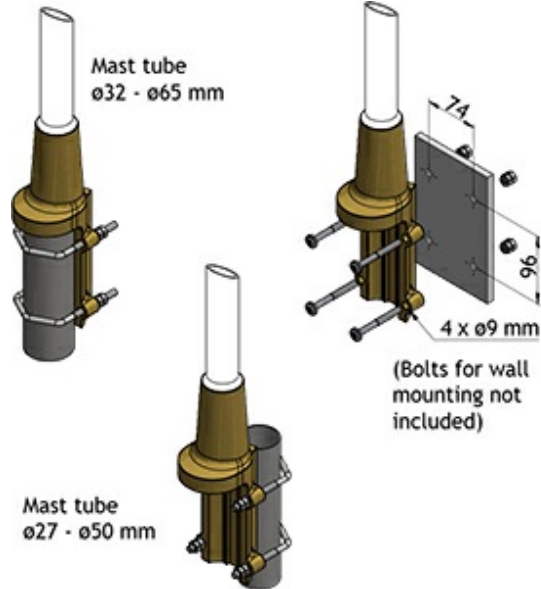
### SPECIFICATIONS

Electrical	
Model	CXL 2/70C
Frequency	See Ordering Designations
Antenna Type	Coaxial, dual-band base station antenna
Max. Input Power	100 W (for each band)
Polarisation	Vertical
3 dB Beamwidth, E-Plane	80 °
3 dB Beamwidth, H-Plane	Omnidirectional
Impedance	50 Ω
Gain	0 dBd (2.2 dBi)
Bandwidth	160 MHz: 8 MHz @ VSWR 2.0 450 MHz: 20 MHz @ VSWR 2.0
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)
HCM Code(s)	HCM000ND00, 040DE00

Mechanical	
Connection(s)	N(f)
Materials	Radome : Polyurethane-coated glass fibre Mounting bracket : Seawater resistant aluminium, epoxy-coated
Colour	White (RAL 9003)
Wind Area	0.067 sq. m / 0.72 sq. ft.
Wind Load	85 N (160km/h)
Height	Approx. 1300 mm / 51.18 in.
Weight	Approx. 2.5 kg / 5.51 lb
Mounting	On 27 - 65 mm / 1.02 - 2.56 in. dia. mast tube



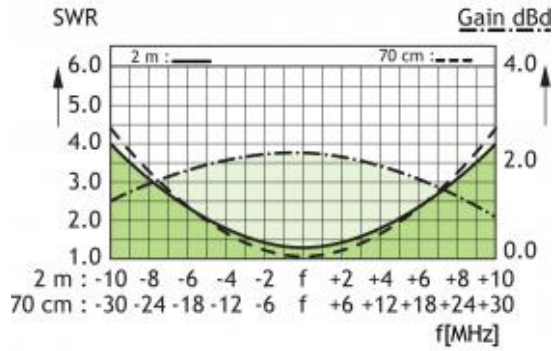
Multi-Purpose Mounting Bracket



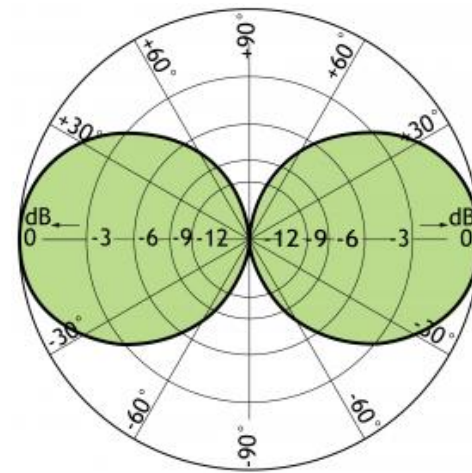
ORDERING

Type	Product No.	Frequency
CXL 2/70C/146/375	100000798	142-150 / 365-380 MHz
CXL 2/70C/146/390	100000799	142-150 / 380-400 MHz
CXL 2/70C/146/405	100000800	142-150 / 395-415 MHz
CXL 2/70C/146/420	100000801	142-150 / 410-430 MHz
CXL 2/70C/146/435	100000802	142-150 / 425-445 MHz
CXL 2/70C/146/450	100000803	142-150 / 440-460 MHz
CXL 2/70C/146/465	100000804	142-150 / 455-475 MHz
CXL 2/70C/152/375	100000805	148-156 / 365-380 MHz
CXL 2/70C/152/390	100000806	148-156 / 380-400 MHz
CXL 2/70C/152/405	100000807	148-156 / 395-415 MHz
CXL 2/70C/152/420	100000808	148-156 / 410-430 MHz
CXL 2/70C/152/435	100000809	148-156 / 425-445 MHz
CXL 2/70C/152/450	100000810	148-156 / 440-460 MHz
CXL 2/70C/152/465	100000811	148-156 / 455-475 MHz
CXL 2/70C/158/375	100000812	154-162 / 365-380 MHz
CXL 2/70C/158/390	100000813	154-162 / 380-400 MHz
CXL 2/70C/158/405	100000814	154-162 / 395-415 MHz
CXL 2/70C/158/420	100000815	154-162 / 410-430 MHz
CXL 2/70C/158/435	100000816	154-162 / 425-445 MHz
CXL 2/70C/158/450	100000817	154-162 / 440-460 MHz
CXL 2/70C/158/465	100000818	154-162 / 455-475 MHz
CXL 2/70C/164/375	100000819	160-168 / 365-380 MHz
CXL 2/70C/164/390	100000820	160-168 / 380-400 MHz
CXL 2/70C/164/405	100000821	160-168 / 395-415 MHz
CXL 2/70C/164/420	100000822	160-168 / 410-430 MHz
CXL 2/70C/164/435	100000823	160-168 / 425-445 MHz
CXL 2/70C/164/450	100000824	160-168 / 440-460 MHz
CXL 2/70C/164/465	100000825	160-168 / 455-475 MHz
CXL 2/70C/170/375	100000826	166-174 / 365-380 MHz
CXL 2/70C/170/390	100000103	166-174 / 380-400 MHz
CXL 2/70C/170/405	100000828	166-174 / 395-415 MHz
CXL 2/70C/170/420	100000829	166-174 / 410-430 MHz
CXL 2/70C/170/435	100000830	166-174 / 425-445 MHz
CXL 2/70C/170/450	100000831	166-174 / 440-460 MHz
CXL 2/70C/170/465	100000832	166-174 / 455-475 MHz
CXL 2/70C/176/375	100000833	172-180 / 365-380 MHz
CXL 2/70C/176/390	100000835	172-180 / 380-400 MHz
CXL 2/70C/176/405	100000836	172-180 / 395-415 MHz
CXL 2/70C/176/420	100000837	172-180 / 410-430 MHz
CXL 2/70C/176/435	100000838	172-180 / 425-445 MHz
CXL 2/70C/176/450	100000839	172-180 / 440-460 MHz
CXL 2/70C/176/465	100000840	172-180 / 455-475 MHz

Typical Gain and VSWR curves



Typical Radiation Pattern (E-Plane)



Typical Radiation Pattern (H-Plane)

