

## Dual-frequency, Base Station Antenna for the 80 MHz and TETRA BAnd

### DESCRIPTION

- CXL 4/70C/... is a dual-frequency base station antenna - two bands with only one antenna.
- This antenna makes it possible to:
  - operate 4 m and TETRA transceivers alternately on the same antenna.
  - operate two transceivers (4 m and TETRA) at the same time on one antenna using a diplexer (type DIPX 225/330 - must be ordered separately).
- CXL 4/70C/... 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 4/70C/...
Frequency	74 - 87 MHz      380 - 400 MHz
Antenna Type	Coaxial, dual-band base station antenna
Max. Input Power	100 W (for each band)
Polarisation	Vertical
Pattern Type	Omnidirectional
3 dB Beamwidth, E-Plane	80 °
3 dB Beamwidth, H-Plane	Omnidirectional
Impedance	50 Ω
Gain	4 m : 74 - 77 MHz Approx. 2 dBi 0 dBd 4 m : 84 - 87 MHz average -6 dBi -4 dBd TETRA : Approx. 2 dBi 0 dBd
VSWR	≤ 1.5:1 @ f. res. in both bands
Bandwidth	4 m : 74 - 77 MHz ≤ VSWR 2.0:1 4 m : 84 - 87 MHz ≤ VSWR 6.0:1 TETRA : 380 - 400 MHz ≤ VSWR 2.0:1
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)
HCM Code(s)	HCM000ND00, 020DE00
Mechanical	
Connection(s)	N(f)
Materials	Radome : Polyurethane-coated glass fibre Mounting bracket : Seawater resistant aluminium, epoxy-coated
Colour	White (RAL 9003)
Wind Area	0.14 sq. m / 1.51 sq. ft
Wind Load	177 N (160 km/h)
Height	Approx. 2700 mm / 106.30 in.
Weight	Approx. 3.8 kg / 8.38 lb.
Mounting	On 27 - 65 mm dia. mast tube

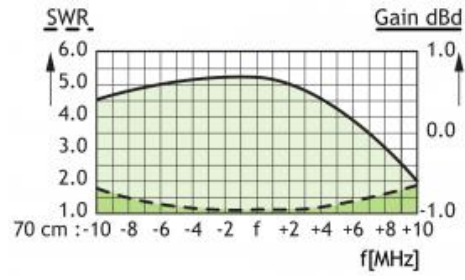
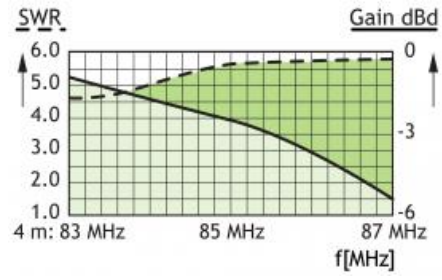
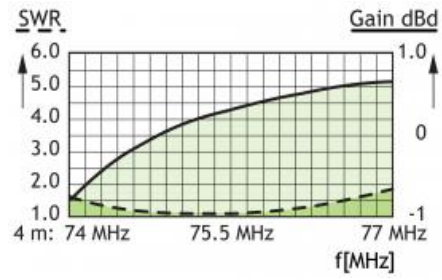
### ORDERING

Model	Product No.	Frequency
CXL 4/70C/74-87/380-400 MHz	100000376	4 m band: 74 - 87 MHz TETRA: 380 - 400 MHz

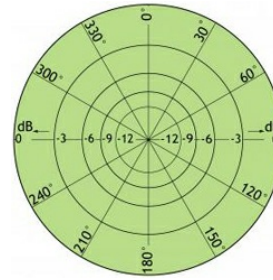
### PLEASE NOTE

If other frequencies within the 4 m band are required, please contact us for a quotation.

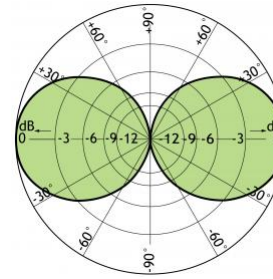
TYPICAL GAIN AND VSWR CURVES



TYPICAL RADIATION PATTERN (H-PLANE)



TYPICAL RADIATION PATTERN (E-PLANE)



MULTI-PURPOSE MOUNTING BRACKET

