

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.
- Atmospherical discharges are immediately led to ground as all metal parts are DC-grounded (consequently, the antenna shows a DC-short across the coaxial cable).



ORDERING

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

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 | 4 m : 74 - 77 MHz = SWR 2.0:1 4 m : 84 - 87 MHz = SWR 6.0:1 TETRA : 380 - 400 MHz = SWR 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 (160km/h) |
| Height | 2700 mm / 106.30 in. |
| Weight | 3.8 kg / 8.38 lb |
| Mounting | On 27 - 65 mm dia. mast tube |

ADDITIONAL DATA

| | |
|--|--|
| <p>TYPICAL RADIATION PATTERN (H-PLANE)</p> | <p>TYPICAL RADIATION PATTERN (E-PLANE)</p> |
| <p>MULTI-PURPOSE MOUNTING BRACKET</p> | |
| <p>TYPICAL GAIN AND SWR CURVES</p> | |