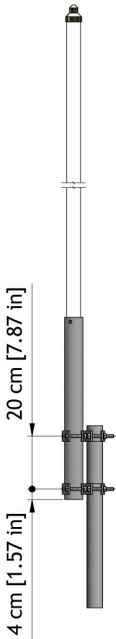


Sturdy, 5 dBd Gain, Base Station Antenna for the 160 MHz Band

DESCRIPTION

- CXL 2-5SL/... is a 5 dBd, vertically polarized, omnidirectional base station antenna.
- The antenna has a bandwidth of 8 MHz.
- In designing this antenna, special emphasis has been laid on obtaining a large bandwidth both in relation to VSWR and gain. The phasing of the radiating elements is carefully adjusted to yield maximum gain in the horizontal plane, with the level of the side lobes reduced to a minimum.
- The antenna element is sealed in a high-quality, cylindrical 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 2-5SL/... is a vibration-proof, lightweight, slim-line, corrosion-resistant, modern style base station antenna.
- The antenna is provided with our type "SL" (Slim Line) mast mount, which is a multipurpose mounting tube made of non-corrosive aluminium.
- The antenna can be mounted on mast tubes of 33 to 70 mm in outer diameter.
- The accompanying clamp set and fittings are made of hot galvanized steel.



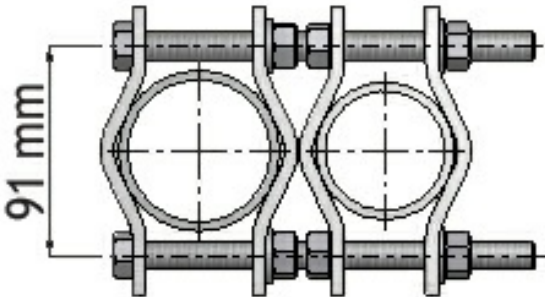
SPECIFICATIONS

Electrical	
Model	CXL 2-5SL/...
Frequency	8 MHz wide frequency segments within the 144 - 175 MHz range. Please specify centre frequency or duplex Tx and Rx
Antenna Type	High-gain collinear
Max. Input Power	500 W
Polarisation	Vertical
3 dB Beamwidth, E-Plane	18 °
3 dB Beamwidth, H-Plane	Omnidirectional
Impedance	50 Ω
Gain	5 dBd (7.2 dBi)
VSWR	< 1.6:1
Bandwidth	8 MHz
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)
HCM Code(s)	HCM000ND00, 009DE50
Mechanical	
Connection(s)	N(f)
Materials	Radome : Polyurethane-coated glass fibre Procom clamp set : Hot galvanized steel
Colour	White (RAL 9003)
Wind Area	0.374 sq. m / 4.03 sq. ft
Wind Load	473 N (160 km/h)
Height	Approx. 5.6 - 6.6 m / 220.47 - 259.84 in. (dep. on frequency)
Weight	Approx. 10 kg / 22.05 lb.
Mounting	On 33 - 70 mm dia. mast tube
Environmental	
Operating temperature range	-30 °C to +70 °C

ORDERING

Model	Product No.
CXL 2-5SL/144 - 152 MHz	100000574
CXL 2-5SL/150 - 158 MHz	100000328
CXL 2-5SL/151 - 159 MHz	100000575
CXL 2-5SL/156 - 164 MHz	100000576
CXL 2-5SL/164 - 172 MHz	100000577
CXL 2-5SL/167 - 175 MHz	100000743

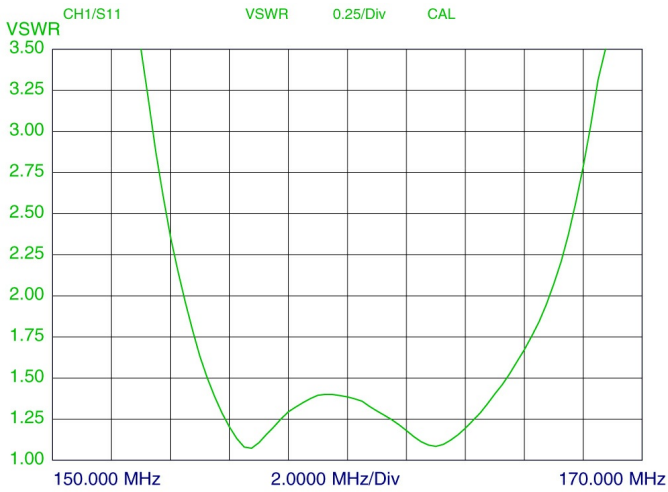
PROCOM CLAMP SET (INCLUDED)



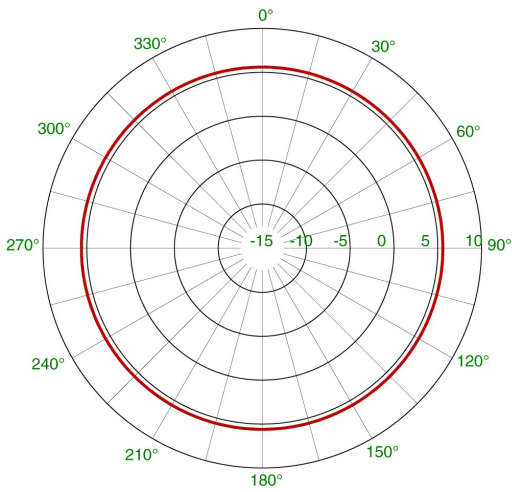
PLEASE NOTE

When using the CXL 2-5SL/... 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 VSWR CURVE



TYPICAL RADIATION PATTERN (H-PLANE)



TYPICAL RADIATION PATTERN (E-PLANE)

