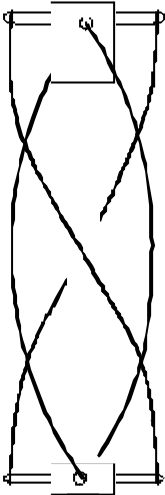


MOONRAKER

QH Series

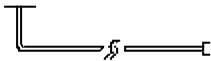
**VHF/UHF compact quadrifilar helix satellite receiving antenna
for land and marine communications**



QH series antennas are specifically designed to maximise reception of circular polarised transmissions from satellites, including military and weather satellites.

With QH series antennas, the gain is uniform over a greater capture area enabling signal reception when the satellite is low over the horizon as well as overhead. In this way the communications window can be extended while, at the same time, maintaining quality reception.

The antenna, a 1/2 wave quadrifilar helix, is fully marinised. It is comprised of marine grade stainless steel elements with polypropylene insulators and a stainless steel mounting pole, and has internal phasing and matching network, together with a low noise high gain amplifier (option). A 12 volt power supply splitter is provided to enable DC to be sent up the coaxial cable and the RF signal to come down the same cable.



SPECIFICATIONS

Frequency Range	VHF/UHF Bands (tuned to specified frequency)
Pattern	Elevation: Hemispherical Azimuth: Omni-directional
Polarisation	Circular
VSWR	<1.5:1
Phase Balance	± 2° max
Amplitude Balance	± 0.5 dB max
Antenna Gain	0 dBi C (without preamplifier)
Amplifier Gain	20 dB (nominal)
Power Supply/Splitter (amplified version)	12 volt DC 100mA (approx.)
Impedance	50 Ohms (nominal)
Connection	1m (3.28ft) coaxial cable with BNC Jack - other connectors to order
Antenna Dimensions	Varies with frequency: at 137 and 243 MHz: length 830mm (2.7ft) diameter 150mm (6 in)
Power Supply/Splitter Dimensions	105(l) x 55(w) x 30(d) mm (4.1x2.2x1.2 in), including connectors
Mounting	Supplied with stainless steel mounting pole, suitable for clamping or strapping to mast or superstructure

Moonraker Australia Pty. Ltd. A.C.N. 009 531 211 Specifications subject to change 9/00

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