



Type CL3

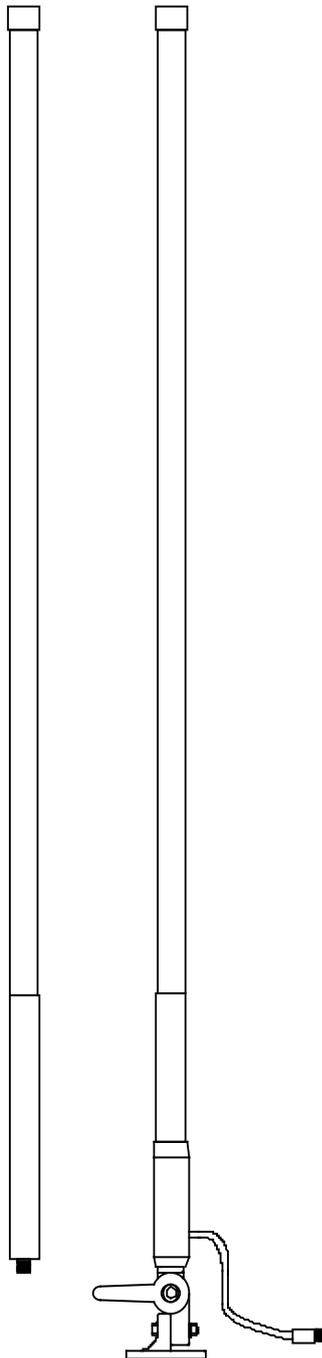
UHF collinear system for extended range

The Type CL3 is a high gain, high strength, vertically polarised ground independent collinear antenna designed for use in the marine mobile and fixed land environments.

The internal radiating elements consist of a series fed array of $1/2\lambda$ stacked dipoles optimised for omnidirectional low angle radiation and consistent high gain across the usable frequency range.

The antenna is fully marinised, DC grounded, and is encapsulated within a heavy duty coated fibreglass radome, with a marine grade, low corrosion, tempered aluminium alloy mounting tube providing a high degree of strength. It is fully protected by a high durability epoxy based coating resistant to chemical attack, abrasion and the effects of ozone and ultra-violet radiation, which ensures and long operational life.

It can be supplied for side or base mounting or with a rugged multi - angled swing down mount. Connection is via an N type connector in the base when sidemounted or via a short coaxial cable and N connector when base or swingdown mounted.



Specifications

Colour	Standard is Black. Optional White.
Frequency Range	Factory tuned within the range 390 to 520 MHz.
VSWR	<1.5:1 for 10 MHz. Bandwidth
Impedance	50 ohms (nominal)
Gain	5+ dBi (3+ dBd.).
Length	1.5 Metres maximum (dependent upon frequency)
Diameter	46mm (1.8 in) base mounting; 25.4mm (1 in) side mounting
Power	100 watts CW
Connection	N type (F) connector in base (sidemount version); 5m coaxial cable with N type (m) connector base and swingdown versions.
Mountings	Either by heavy duty stainless steel mounting clamps (available) to mast or rail; nylon swingdown mount adjustable in both planes (1" thread); or base mounted via 12mm metric bolt (not supplied).
Packed weight	3 Kg. (6.6 lbs.)

Specifications subject to change – Issued 07/13



Moonraker Australia Pty. Ltd. ABN 70 162 868 475
Tasmanian Technopark, Dowsing Point, Tasmania, Australia 7010

Website: www.moonraker.com.au Tel: 61 (0)3 6273 1533 Fax: 61 (0)3 6273 1749 Email: radiocom@moonraker.com.au





INSTALLATION INSTRUCTIONS

MOUNTING BY SWINGDOWN MOUNT

1. Place the base plate (of the mount) in the desired position and use it as a template.
2. Mark the position of the mounting holes.
3. Drill 4 x 6.4mm (1/4 in) diameter holes.

MOUNTING BY 12mm BOLT BASE MOUNT ADAPTOR

1. Mark the mounting position on a horizontal surface or bracket that allows a minimum of 38mm (1.5 in) diameter surface area.
2. Drill a 13mm (1/2 in) hole in the marked position.
3. Using a 12mm stainless steel or galvanised bolt fastens the antenna down firmly. **DO NOT OVERTIGHTEN AS THREAD MAY STRIP IN NYLON BASE.**

MOUNTING BY SIDE MOUNTING

1. Use heavy duty clamps or strong hose clamps.
2. Space them 300mm (12 in) apart.
3. Do not over tighten.
4. Do not drill stainless steel mounting tube.

IMPORTANT FACTORS

1. The top 100 cm (39.4 in) of the antenna must be in free space, well away from other objects, antennas, etc. Mounting it as high as possible will assist performance. Vertical is best.
2. The base/mounting tube section of the antenna must not be drilled or damaged.
3. Supplied cable may be shortened. It may be lengthened but performance will be degraded due to signal/coaxial losses.
4. Due to internal arrangements the antenna will exhibit an open circuit if tested with an ohm meter or DC tester.
5. When using a swingdown mount allow sufficient cable to permit the antenna to swingdown without cable strain.



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