Model
HM218-AMFM

Marine Mast or Side Mount
AM/FM Radio Receive
Antenna, 5.5 metre

AM/FM Radio
Receive only

INSTALLATION GUIDE

www.zcg.com.au

- Two-piece white fibreglass radome, chromed brass joining ferrules and stainless steel mount tube.
- Mount to a mast, the side of a wheelhouse or other vertical flat surface using appropriate clamps.
- 5.7 metres of white RG58 stranded cable bottom exits antenna
- Solderless radio termination supplied not fitted

ANTENNA DESCRIPTION

HM218-AMFM is suitable for large vessel or large structure installation locations. The two-piece white fibreglass radome with chromed brass joining ferrules and stainless steel mount tube stands 5.5 metres tall when fully assembled.

This long antenna offers top performance and can be easily dismantled for storage. The fibreglass radome is fully sealed and packed tight with closed cell foam to support and protect the internals, prevent rattles and maximise service life in harsh marine conditions. The HM218-AMFM is terminated with 5.7 metres of white RG58A/U stranded coaxial cable exiting from the base of the antenna.

The antenna is receive only and no power should be put into the antenna.

A detailed specification sheet is available to download from **www.zcg.com.au**

SELECTING THE MOUNTING POSITION

To broaden your choice of mounting positions, both mast mount or side mount clamps are available.

For mounting to a mast, **2 x UAM180L** galvanised steel parallel clamps are recommended for a round mast between 40mm and 75mm in diameter. Larger capability clamps are also available.

For mounting to the side of a wheelhouse or other vertical flat surface, **2 x NSM218** nylon side mounts include ½"–BSW stainless steel fasteners. Drill a 12.7 mm (½") diameter hole through the wall for the stainless steel bolt and then firmly secure each side mount in position.

To achieve best performance from your antenna, these are the important principles you should consider when selecting the mounting point:

1. *Mount the antenna in as high a place as possible.*
2. *Mount the antenna as far away from other antennas and metallic objects as possible to avoid interference and distortion of the radiation pattern. At least 350 mm side clearance is desireable, preferably more.*
3. *The antenna must be in a vertical position for optimum performance, not mounted at an angle.*

ROUTING THE CABLE

Route the cable carefully to your AM/FM radio/device. Ensure that the cable is not stretched excessively and there are no sharp kinks. Ensure the cable is located away from sources of extreme temperature or electrical interference. These will cause system failures and possible damage to your system.

If using cable ties, then we highly recommend our 316 stainless steel type for longevity in the harsh marine environment.

Do not pull the cable ties so tight as to crush the cable.

A damaged feeder cable is a cause of high VSWR and reduced performance.

SEALING CONNECTIONS

For the marine environment, it is vital that all connections be well sealed with at least two layers of self-amalgamating tape. ZCG also recommend sealing cable entrance/pass-through locations to stop any possible water ingression into your AM/FM device or terminations.

PVC or electrical tape on its own will not be adequate.

MAINTENANCE

This antenna has been designed for high reliability and low maintenance.

We recommend that you conduct a routine annual mechanical inspection of the antenna, feeder cable, connections and mounting hardware to ensure secure and extend the life of your system.

FITTING THE CONNECTOR

1) Carefully strip the end of the coaxial cable as shown in the diagram and fold the braid back over the jacket.
2) Place the retention clip over the end of the cable and exposed braid, then squeeze the fingers into the cable jacket to hold the clip secure
3) Loosen the screw in the white centre pin piece, insert the centre conductor wire into the pin and tighten the screw.
4) Move the black cap up the cable and over the retention clip.
5) Thread the metal outer body piece over the inner white centre piece.
6) Screw the black cap and connector outer body together finger tight.
7) Insert the connector into the antenna input of your AM/FM radio/device

Installation is now complete.

A = 7.0 mm
B = 5.0 mm

Specifications are subject to change without prior notice