

# KJM

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## A1790-V

17' 6" 9dB VHF  
MARINE ANTENNA  
Installation Guide

2 sections



KJM is dedicated to providing the finest in shipboard equipment. Our products are built to withstand the harsh marine environment, and are designed by people with over three decades of experience in the marine industry.

**Please read the following pages before attempting installation to ensure complete understanding of the A1790-V VHF Antenna.**

A1790-V is a high performance 17' 6" foot commercial grade 9dB antenna designed to transmit and receive on Marine VHF channels. Ideal for installations on large yachts, commercial vessels and base stations, each antenna is supplied with 20' of low loss RG-8X and terminated with a pre-installed FME connector make the A1790-V antenna easy to install as there is no soldering required.

## FEATURES

- White 17' 6" Foot marine VHF antenna with 9dB Gain
- Phase ½ wave elements to Collinear array
- 1"-14 chrome-plated brass ferrule
- Brass radiators for maximum transmit and receive performance
- FME male termination
- Supplied with 20' of low loss RG-8X and terminated with FME (mini UHF) connector
- Cable is extendable using up to 3 optional AC200 cables

## ACCESSORIES (included)



Adaptor FME male to PL259 male



PL259 Male connector

## ACCESSORIES (not included)



M100 Ratchet Mount



M200 4' Straight Mount



AC200 20' RG-8X Cable

## INSTALLATION

This antenna will read "open circuit" when tested with an ohm meter or continuity tester.

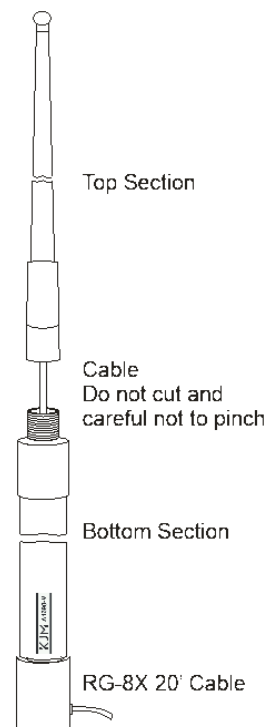
For installations where the cable exits through the bottom center of the antenna's ferrule, replace the grommet at the exit hole in the ferrule with the supplied Grommet Plug

### FCC Information:

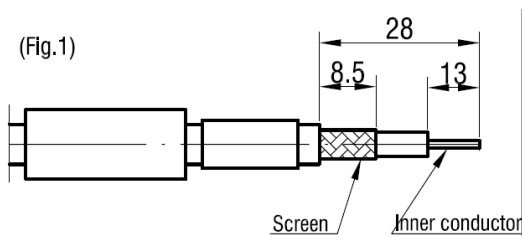
The antenna must be located at least 3' away from passengers in order to comply with FCC RF exposure requirements.

### For best performance:

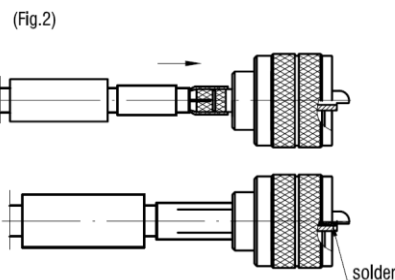
- The antenna should be mounted as high as possible.
- Keep the antenna away from large metal objects and other radiating devices like RADAR and other antennas.
- The A1690-V Antenna is supplied with 20 feet of RG-8X low loss coaxial cable with pre-installed FME connector on both sides for maximum radiation and interference rejection.
- Install a stand-off bracket (not included with the antenna) 3-4 feet above the antenna's base. Follow the directions included with the mount you choose.
- Do not shorten the 20' cable; instead simply coil and tie-wrap the excess cable in a secure location.
- The cable may be extended using the optional 20' RG-8X coax cable (up to 3 can be connected).



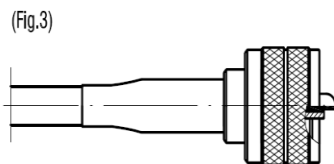
Note: It may be necessary to remove the FME connector to be able to fit through the cable guide hole on a ratchet mount. If this is the case, solder the PL-259 connector supplied with the antenna using the instruction below as guide:



Trim cable to dimensions shown.  
Slide crimp ferrule and shrink sleeve.  
Braid wires and inner conductor.



- a) Insert assembly into connector body and push the crimp ferrule onto the cable braid wires.
- b) Crimp shield layer by using crimping tools (0.311in.)
- c) Solder the cable inner conductor into pin
- d) Heat shrink sleeve rear of connector and down onto cable jacket using hot air gun.



SPECIFICATIONS			
<b>FREQUENCY RANGE</b>	156MHz to 162MHz	<b>POLARIZATION</b>	Vertical
<b>GAIN AVERAGE</b>	9 dB	<b>ELEMENTS</b>	Brass and copper
<b>ANTENNA TYPE</b>	Phase ½ wave elements to Collinear array	<b>SWR at 156.8MHz</b>	1.3:1
<b>OVERALL LENGTH</b>	17.6' (two sections together)	<b>RADOME</b>	Polished polyurethane
<b>MAX. INPUT POWER</b>	100 watts	<b>CONNECTOR</b>	FME to PL259 adapter
<b>IMPEDANCE</b>	50 ohms	<b>FERRULE</b>	316 Stainless 1" 14 threads
<b>DC GROUND</b>	Open when measured	<b>CABLE LENGTH / TYPE</b>	20' / RG-8X

Performance specifications are nominal and unless otherwise indicated, are subject to change without notice.

## WARRANTY / CONTACT

KJM warrants its products to be free of defects in materials and workmanship for 5-years. KJM's obligation under this warranty is limited to repair or replace defective products. No material will be repaired or replaced without written authorization from KJM. Repair or replacement will be made only after an examination indicates defective material or workmanship at time of manufacture. KJM is in no event liable for consequential damages, installation costs or other costs of any nature incurred as a result of the use of the products manufactured by KJM, whether used in accordance with instructions or not. All shipping costs on returned material are the responsibility of the purchaser. KJM is not liable for repair or replacement of any product damaged by lightening, other natural phenomenon's or incorrect installation including reverse polarity connections. This warranty is in lieu of all others, either expressed or implied. Proof of purchase is required.