



VTRONIX

AA20/AA12SS/AAX1 & AAX5

Active Antenna & Splitter Units

AA20

FREQUENCY : 50 KHz-30 MHz
 IMPEDANCE : 50 Ohm
 LENGTH : 0.93 M
 WEIGHT : 0.30 Kg (including 20m RG58 Coax)
 WHIP : Stainless Steel
 MOUNTING : Aluminium bracket, black finish, 7" stand-off, stainless steel fasteners
 FEED CABLE : RG58 50 Ohm 20 metres

PARTS SUPPLIED:

Antenna
 7" Bracket
 3 Screws
 CCB1 Plug



AA12SS

FREQUENCY : 50 KHz-30 MHz
 IMPEDANCE : 50 Ohm
 LENGTH : 2.75 M
 WEIGHT : 1.65 Kg (including 6m RG58 Coax)
 TUBE : GRP Tapered Tube
 MOUNTING : Base Ferrule has a standard 1" 14 TPI thread, compatible with all our bases and extension poles.
 FEED CABLE : RG58 50 Ohm 6 metres

PARTS SUPPLIED:

Antenna
 CCB1 Plug

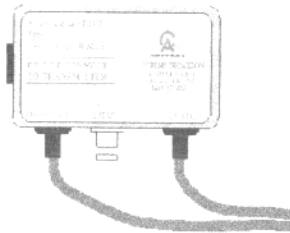


AAX1

SIZE : 91mm x 38mm x 30mm
 INPUT VOLTAGE : 10 to 30v d.c.
 TOTAL CURRENT WHEN DRIVING
 AA20/12SS : 10mA
 SUPPLY CABLE : 1 Metre
 COAX OUTPUT : 1 Metre
 MOUNTING : 2 x No. 6 1 3/4" Plated Screw

PARTS SUPPLIED:

AAX1
 2 Woodscrews

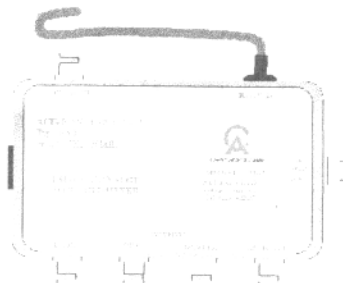


AAX5

SIZE : 110mm x 60mm x 30mm
 INPUT VOLTAGE : 10 to 30v d.c.
 TOTAL CURRENT WHEN DRIVING
 AA20/12SS : 45mA
 SUPPLY CABLE : 1 Metre
 COAX OUTPUT : 1 Metre
 MOUNTING : 2 x No. 6 1 3/4" Plated Screw

PARTS SUPPLIED:

AAX5
 2 Woodscrews
 2 CCB1 Plugs



PART 2

COMMUNICATION AERIALS LTD

Unit 1A, Woodland Industrial Estate, Eden Vale Road, Westbury, BA13 3QS, England
 Telephone: 44 (0) 1373 822835 Fax: 44 (0) 858081 Web: www.communicationaerials.com



VTRONIX

AA20/AA12SS/AA1 & AAX5

Active Antenna & Splitter Units

Thank you for purchasing a Communication Aerials/V-Tronix. Communication Aerials/V-Tronix works hard to build reliability and durability into all of its products for maximum customer satisfaction. *Before installing, please read all instructions, study the diagram and check parts supplied against those listed.*

AA20-ACTIVE RECEIVE ANTENNA

The antenna should be mounted as far from any transmitting aerials as possible (not closer than 1 metre for optimum performance). It is not necessary for the aerial to be mast mounted, although height is an advantage. Ensure that no chafing can occur on the coaxial feeder. A range of accessories including waterproof deck and in-line connector kits, clips and glands are available (see your dealer or contact us direct for details and prices). Any excess feeder cable should be discarded. Fit the BNC type connector (CCB1) supplied, connect to the "ANT.INPUT" on the power supply/splitter unit.

In some instances a power supply unit may not be required if the antenna is used as a direct replacement on one item of equipment such as "Decca" or "Navtex" system receivers, that already have a minimum of 4.5v available at the antenna socket, consult your dealer or ourselves concerning this.

IMPORTANT: At all times ensure that the coaxial cable is protected from the ingress of moisture. Also, this antenna not be connected to a transmitter as it will be destroyed immediately.

AA12SS-ACTIVE RECEIVE ANTENNA

Performance specifications as AA20, with white GRP tapered tube, length 2.75 metres and 6 metres RG58. The base ferrule has a standard 1" 14 TPI thread, compatible with all our bases and extensions.

POWER SUPPLY/SPLITTER UNITS AAX1 & AAX5

These units can be vertically or horizontally mounted, situated close to the receiver(s). The units are supplied with an integral 1.5 metre power supply cable, and will operate from 10 to 30 volts d.c. outputs are provided by five BNC "female" connectors (two mating BNC type plugs supplied with unit).

IMPORTANT: Connect as follows

BLUE – Negative

BROWN – Positive

No damage will occur if the polarity is reversed.

On the AAX1 output to receiver is via the moulded-in one metre of RG58 coaxial cable. The AAX5 outputs are provided by five BNC "female" connectors (two mating BNC type plugs supplied with unit)

IMPORTANT:

Output No.1 Radio Navigation equipment

Output No.2 Radio Navigation equipment

Output No.3 Navtex Receivers

Output No.4 Communication RX's, LW, MW and Weather, Fax Tx

Output No. 5 Broadcast Ban VHF (UKW)

PART 1

COMMUNICATION AERIALS LTD

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Tools required:
Cutters
Soldering Iron

Supplied Part:

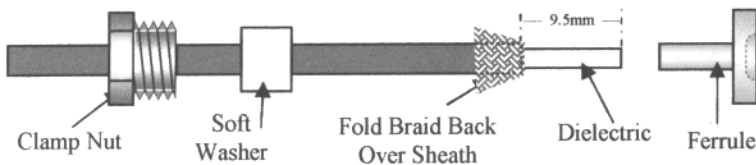
Depending on which plug/jack purchased.....

1 off CCB1 (RG58) Plug or
 1 off CCB5 (RG58) Jack

Installation Instructions

To Make installation easier, remove the plug from the end of the cable by unscrewing it; note how the plug fits and the cable is cut

- Slide clamp nut and plain gasket over cable.
- Trim outer sheath from cable, as indicated.
- Fold back braid, and insert ferrule over dielectric to trap braid between outer sheath and ferrule.
- Trim off surplus braid
- Trim back dielectric and check that dimension of protruding centre conductor is indicated.
- Tin centre conductor.
- Slide rear insulator over dielectric, to butt against ferrule.
- Fit contact (male for plugs; female for jacks) on centre conductor, with shoulder pressed into recess in rear insulator.
- Hold cable and contact tightly together, and solder.
- Slide plain gasket and clamp nut up to ferrule, trapping braid.
- Fit front insulator over contact to butt against rear insulator.
- Press sub-assembly into body as far as possible.
- Engage and tighten clamp nut.



- Trim back dielectric and check that dimension of protruding centre conductor is indicated.
- Tin centre conductor.

