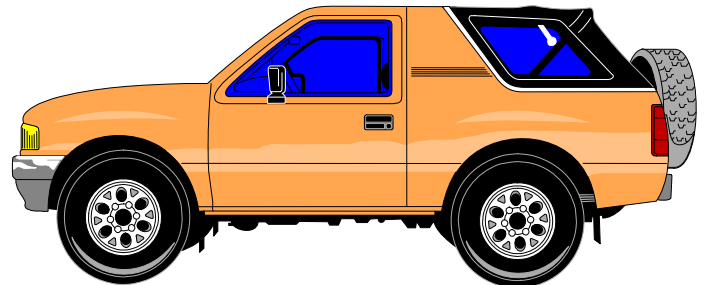
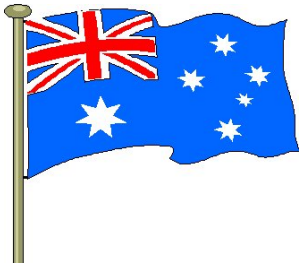


Antennas & Accessories

UHF, VHF, Cellular & GPS - Mobile, Marine, Basestation & Hand Held

Updated November 2009 (Rev 2009-01)



**All antennas are manufactured by Dynmast Pty. Limited.
Exclusively distributed Australia wide by Rojone Pty. Limited.**



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INDEX

Introduction _____	4
Antenna Terms _____	6
27 MHz Mobile Basestation Antennas	
27 MHz C.B. Parallel & Tapered Whips _____	8
27 MHz C.B. Special Flexi, Slim & Slope Adjustable Whips _____	9
27 MHz C.B. Adjustable Tip Antennas _____	10-11
Marine Antennas	
27 MHz Marine Antennas & Accessories _____	13
VHF Antennas	
VHF Mobile Fibreglass Antennas _____	14
VHF Mobile Stainless Steel Antennas _____	15
VHF Mobile Ground Independent Stainless Steel Antenna _____	16
VHF Hand Held Portable Antennas _____	17
UHF Antennas	
UHF Mobile Fibreglass Standard & Slope Adjustable Antennas _____	18,19
UHF Mobile Ground Independent Collinears _____	20
UHF Basestation Antennas _____	21
UHF Hand Held Portable Antennas _____	22 & 23
UHF Antenna Accessories _____	24
Cellular Frequency Antennas	
Cellular Mobile Fibreglass Whips _____	25
Cellular Mobile Dipoles _____	26
AM – FM Mobile Antennas	
AM – FM Receiving Antennas _____	27
AM – FM Antenna Accessories _____	27
Accessories – Bases, Lead Assemblies, Filters, Power Dividers & Mounting Hardware	
HF/VHF Antenna Accessories _____	12
Cellular Accessories _____	25 & 26
Mounting Hardware & Adaptors _____	28 & 29
Connectors _____	30, 31, 32, 33, 37
Phone Connectors _____	34
Cables _____	35, 36, 37
Contact Details	
Rojone Pty Ltd _____	39



INTRODUCTION

Choosing the proper antenna for any application requires careful consideration in regard to the following four major criteria's;

Gain Physical Size Cost Appearance

The gain required depends on system margins and how far the system must operate. Generally the more gain, the more cost and the longer the antenna. Systems where the antenna can be a lower performance type will have less cost. Installations where suitable ground plane is available will be less costly than installations without adequate ground plane.

To determine the best mobile antenna type for your particular installation, you should first be acquainted with all the electrical types available. Keep in mind that not all types are available in all mechanical configurations and frequencies.

ELECTRICAL TYPES



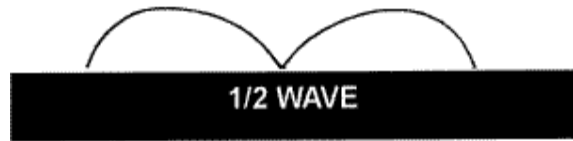
LOADED 1/4 WAVE

The loaded $\frac{1}{4}$ wave type antenna is electrically a 1.4 wave, while being shorter than a full size $\frac{1}{4}$ wave antenna. This is accomplished with a loading coil that places a portion of the electrical length of the antenna in a coil located along the radiating element. The efficiency of the antenna depends on how much of the electrical length is inside the coil (and therefore not radiating).



FULL 1/4 WAVE

The loaded $\frac{1}{4}$ wave is a single radiation element $\frac{1}{4}$ wavelength long. It is the simplest and least expensive type of antenna. $\frac{1}{4}$ wavelength antennas require no loading or matching coils. Typical gain is 0dBd when mounted on a suitable ground plane.



The $\frac{1}{2}$ wave antenna is a single radiating element $\frac{1}{2}$ wavelength long. Because the end fed impedance of the antenna is not suitable for matching the radio, an impedance matching transformer is used at the base of the radiating element. The $\frac{1}{2}$ wave antenna is suitable for use where no or little ground plane is available. The gain with no ground plane is 0dBd. Gain with a suitable ground plane is typically 2.4dBd.



The 5/8-wave antenna is a single radiating element $\frac{5}{8}$ wavelength long. In single element antennas, the 5/8 wave antenna has best performance (3dBd) when mounted on a suitable ground plane. Since the end fed impedance of a 5/8-wave antenna is unsuitable for interfacing with a radio, an impedance matching transformer is used at the base of the antenna. The antenna must be mounted on a suitable ground plane.



These collinear designs have two elements separated by a phasing coil. The top element is a $\frac{5}{8}$ wave and the bottom element is either a $\frac{1}{2}$ wave or $\frac{1}{4}$ wave. Gain is typically 5dBd for the $\frac{1}{2}$ wave lower element and 3 to 4dBd with the $\frac{1}{4}$ wave lower element when mounted on a suitable ground plane.



This collinear design has two elements separated by a phasing coil. Both top and bottom elements are $\frac{5}{8}$ wavelengths. Gain is typically 5dBd when mounted with or without a ground plane. The end fed impedance does not match the transmitters impedance so again a transformer is used.

ANTENNA TERMS

DECIBEL (Db)

The power gain of an antenna system is usually expressed in Decibel's (dB). The decibel is a practical unit for measuring power ratios because it is more closely related to the actual effects produced than the power ratios itself. One decibel represents a just detectable change in signal strength, regardless of the actual value of the signal voltage. A 20dB increase in signal represents 20 observable steps in increased signal. The decibel is a logarithmic unit and therefore gains and losses expressed in decibels can be added and subtracted arithmetically; for example 3dB = 2 times the power, 6dB = 4 times the power etc.

ELECTRICAL LENGTH

The electrical length of an antenna wire is not necessary the same as it's physical length. The lower the frequency, the longer section of wire is required to achieve a wavelength, less wire is therefore required the higher the frequency becomes.

RADIATION PATTERNS

Antenna radiation patterns are the electromagnetic field an antenna produces when transmitting. Generally, the lower the gain the more evenly the pattern is distributed. High gain antennas produce a more compressed pattern concentrating transmission power into a narrower beam, which makes the antennas more directional.

Antenna patterns are seriously affected by the antennas surrounds, mounting position and ground plane effects.

GROUND PLANE

The majority of antennas commercially produced require ground to operate efficiently. The more ground provided; particularly for lower frequency antennas, the better the antenna will perform. Ground plane is generally a grounded metal surface area. Centre roof mounting an antenna to a vehicle is considered the ideal position.



ANTENNA TERMS

GROUND INDEPENDENT

Ground independent antennas are antennas that have been designed to incorporate in its functionality a simulated ground plane to allow it to perform efficiently with a minimum or no ground plane.

These antennas are generally comprised of a minimum of a ½ wave element.

DIRECTIVITY

All antennas, even the simplest types, exhibit directivity effects.

Directivity is the property of radiation stronger in some directions than others.

Directivity relates to the amount of power density radiated from an antenna in a given direction; e.g. Yagi style antennas are very directional, radiating all it's power in one direction.

This antenna as designed exhibits a much higher gain value due to its directivity.

Typically the higher the gain, the more the radiation pattern is compressed (squeezed) in a given direction. This provides higher transmission efficiency in a given direction.

GAIN

The gain of an antenna is closely related to its directivity.

The more the pattern is compressed (squeezed) in a given direction, the more concentrated the power becomes therefore increasing the efficiency of the antenna to achieve a higher gain value.

High gain and directivity is generally achieved by increasing the number of antenna elements. Each 3dB gain is normally associated by doubling the number of elements in the antenna.



Mobile Antennas – Whips

27 MHz H.F.CB

PARALLEL WHIPS (Type “P”)

Our standard range of C.B antennas are helically wound top loaded with 0.5mm diameter copper wire on solid 6.35mm fibreglass; covered by black, blue or white PVC Heatshrink.

PARALLEL WHIPS – HEAVY DUTY HEATSHRINK (Type “H”)

This range is mechanically constructed the same as the standard parallel whips, with the exception this antenna is covered with a heavy duty, thick walled heatshrink for added protection for severe environmental conditions.

TAPERED WHIPS (Type “T”)

Tapered whips have been added to our product range to provide customers with a lighter more streamline antenna for vehicle mounting. Again, this antenna is helically wound on tapered fibreglass rod, 6.5mm at the base and 4.0mm at the tip. Tapered antennas exhibit greater flexibility than the standard whips as the top section is remarkably lighter.

<u>MODEL</u>	<u>TYPE</u>	<u>DESCRIPTION</u>
A – 105	P	2Ft (600mm long) Parallel whip
A – 108	P	3Ft (900mm long) Parallel whip
A – 112	H	3Ft (900mm long) Heavy Duty whip
A – 118	P	5Ft (1500mm long) Parallel whip
A – 119	H	5Ft (1500mm long) Heavy Duty whip
A – 120	P	6Ft (1800mm long) Parallel whip
A – 123	H	6Ft (1800mm long) Heavy Duty whip
A – 126	T	3Ft (900mm long) Tapered whip
A - 128	T	5Ft (1500mm long) Tapered whip



Mobile Antennas – Whips

27 MHz H.F.CB

FLEXI WHIP (Type “F”)

The Flexi Whip is a helically wound whip antenna. Copper Wire is wound on to a 4.5mm diameter parallel fibreglass rod. This antenna, because of its smaller rod diameter, has an excellent bending radius and a longer life span due to it's increased flexibility.

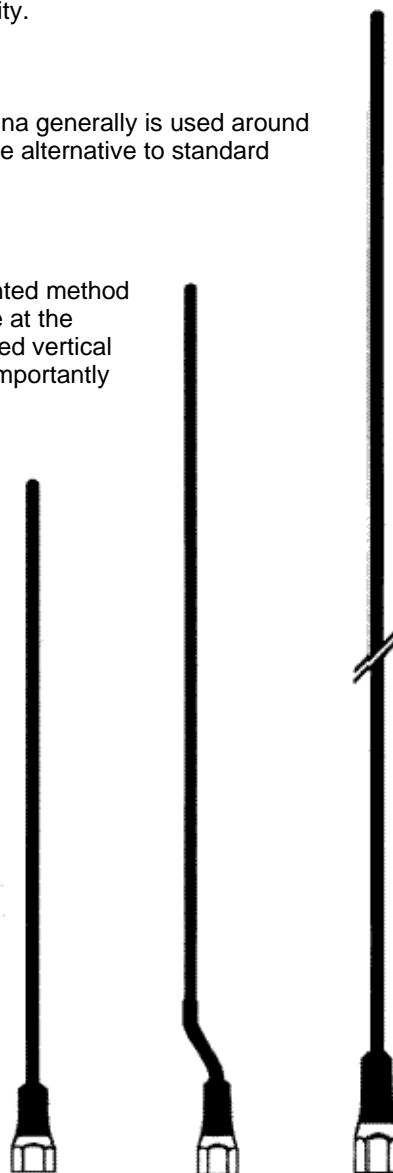
SLIM WHIP (Type “S”)

Helically, copper wire wound on 4.5mm diameter rod. This antenna generally is used around town as it is very compact, making it a very practical and attractive alternative to standard whips.

SLOPE ADJUSTABLE WHIP (Type “SA”)

The built-in Slope Adjustment function of this antennas is a Patented method developed in our own factory. Simply by exerting a little pressure at the base of the antenna, your Antenna will bend slightly to your desired vertical position, without the aid of slope adjustment adaptors and most importantly without interfering with the pre tuning of the Antenna.

<u>MODEL</u>	<u>TYPE</u>	<u>DESCRIPTION</u>
A – 114	F	4Ft (1200mm long) Flexi whip
A – 130	S	2Ft (600mm long) Slim whip
A – 148	SA	3Ft (900mm long) Adjust whip



Mobile Adjustable Tip Antennas 27 MHz H.F.CB

STANDARD ADJUSTABLE TIP ANTENNAS (Type "SAT")

This antenna has proven to be effective in the trucking transport field as well as for passenger & 4WD vehicle use. Constructed from 9.5mm solid fiberglass Rods, this antenna is helically wound with 0.8mm diameter copper wire, enclosed in PVC heat shrink. The antenna features a screwdriver adjustable stainless steel tip, enabling the end user to make slight tuning adjustments if required.

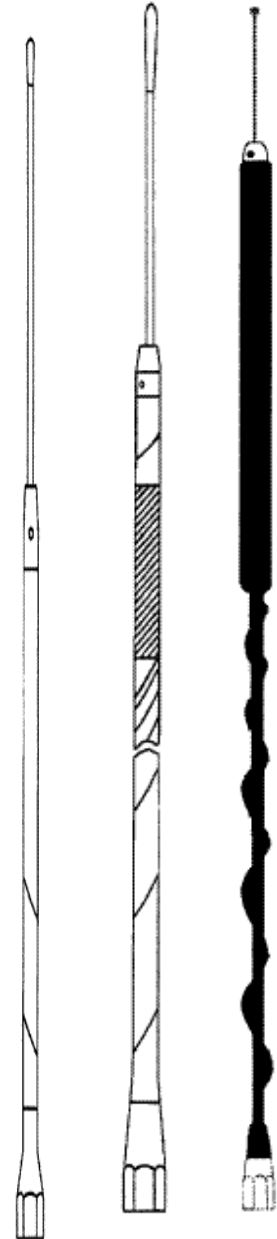
ADJUSTABLE TIP – EXPOSED COIL ANTENNAS (Type "ATEC")

To feature the helical wound red copper wire at the top of the antenna, we offer our customers specially heat-shrunk antennas, black at the base with a clear heat shrink section at the top. This feature makes the antenna look more technical, but practically offers no added performance.

CHUNKIES (Type "C")

Our heavy-duty adjustable tip antennas are manufactured from solid 9.5mm fibreglass rod, again helically wound but with 1mm PVC insulated wire that is then terminated to a heavy nickel-plated brass ferrule. This antenna was designed to handle more power for customers who have radios, which transmit higher power or have amplification. These antennas are covered with PVC heat shrink, available in black, blue and white combinations.

MODEL	TYPE	DESCRIPTION
A – 104	SAT	1Ft (300mm long) Adj tip antenna
A – 106	SAT	2Ft (600mm long) Adj tip antenna
A – 110	SAT	3Ft (900mm long) Adj tip antenna
A -- 111	SATH	3Ft HOLLOW FIBREGLASS LIGHT WEIGHT ROD
A – 116	SAT	4Ft (1200mm long) Adj tip antenna
A – 121	SAT	5Ft (1500mm long) Adj tip antenna
A – 124	ATEC	2Ft (600mm long) Exposed coil antenna
A – 125	ATEC	3Ft (900mm long) Exposed coil antenna
A – 140	C	3Ft (900mm long) Chunkie
A – 141	C	3Ft COMBO BLK/WHITE OR BLUE/WHITE



Mobile Adjustable Tip Antennas 27 MHz H.F.CB

JUMBO RODS (Type "JR")

This range was designed for long-range communications, specifically for long distance trucking or touring as it is capable of handling high power transmission.

Two versions were designed;

(a) The "**JR1**" High performance version, helically wound on 20mm lightweight hollow fibreglass radome with 2mm solid copper wire, giving this antenna the low resistance required for high performance reception and transmission.

(b) The "**JR2**" Economy version, again helically wound with only 1mm PVC insulated copper wire. This antenna still maintains excellent performance.

Both versions are terminated to a heavy nickel-plated brass Ferrule. The antennas are produced using hollow fibreglass tube for greater flexibility and importantly lightweight characteristics, allowing for easy vehicle mounting.

<u>MODEL</u>	<u>TYPE</u>	<u>DESCRIPTION</u>
A - 150	JR	JR1 4FT version clear heatshrink Exposing coil.
A - 151	JR	JR2 4FT version all black



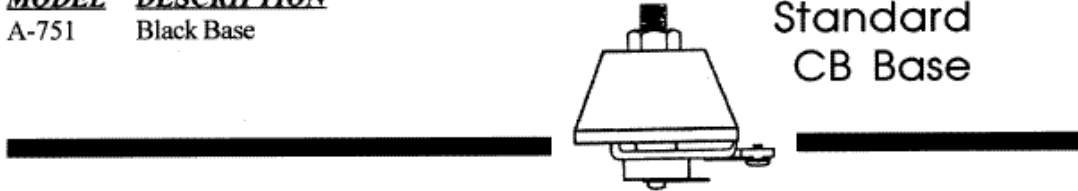
HF/VHF Antenna Accessories

BASES

Our HF/VHF Low profile bases are constructed from UV stable Polypropylene and a 5/16"26 TPI nickel plated brass bolt. Our bases are suitable for the DC to 300 MHz frequency range.

<u>MODEL</u>	<u>DESCRIPTION</u>
A-751	Black Base

Australian
Standard
CB Base



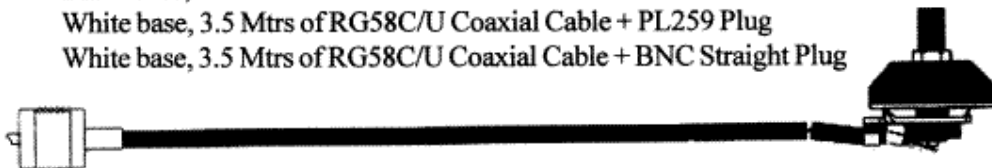
ASSEMBLIES – BASE, LEAD & PLUG

All assemblies are manufactured and fully tested within our factory at Ingleburn, NSW. Cable used is high quality military specification cable with excellent braid coverage. Assemblies are manufactured to standard lengths, although custom made to order lengths are also available upon request. Plugs used on assemblies are the standard UHF (PL259) male plug unless otherwise indicated.

SPECIFICATIONS

VSWR	<1.1 : 1
Mounting	½" round or square hole

<u>MODEL</u>	<u>DESCRIPTION</u>
A-650	Black base, 3.5 Mtrs of RG58C/U Coaxial Cable
A-654	Black base, 3.5 Mtrs of RG58C/U Coaxial Cable + PL259 Plug
A-656	Black base, 3.5 Mtrs of RG58C/U Coaxial Cable + BNC Straight Plug
A-651	Black base, 5.0 Mtrs of RG58C/U Coaxial Cable
A-655	White base, 3.5 Mtrs of RG58C/U Coaxial Cable + PL259 Plug
A-657	White base, 3.5 Mtrs of RG58C/U Coaxial Cable + BNC Straight Plug



Marine Antennas & Accessories

27 MHz MARINE ANTENNA KIT

Added to our very popular marine antenna range is our NEW
A – 252 27 MHz marine antenna kit.

This kit is an environmentally protected, totally sealed Antenna, housed in a robust tapered white fiberglass Radome complete with a (A – 762) Knock down adjustable knuckle. This antenna is our top of the Line 27 MHz marine antenna kit supplied complete, Factory tuned & ready for installation to your timber or fibreglass vessel. The whip top is detachable from the base for replacement in the event of damage.

General Specifications

Frequency 27 MHz Marine

Impedance 50 Ohms

Termination to 3 Mtrs of RG58C/U Coaxial Cable

Max Power 10 Watts

VSWR Typical < 1.5 : 1

MODEL A – 252

8Ft (2438mm long) White 27 MHz Marine Antenna Kit

156 MHz VHF MARINE ANTENNA KIT

Our VHF 156 MHz Marine antenna kit is constructed electrically and mechanically the same as our 27 MHz Marine version, with the exception of only being 5ft (1520mm) in total length.

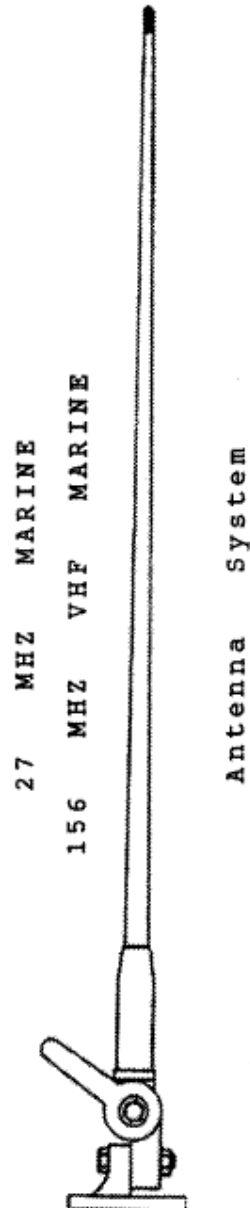
MODEL A – 250

5Ft (1520mm long) White VHF 156 MHz Marine Antenna Kit

MODEL A – 762

Knock Down Adjustable White Knuckle

Sold separately if required.



VHF Mobile Antennas

VHF FIBREGLASS ANTENNAS

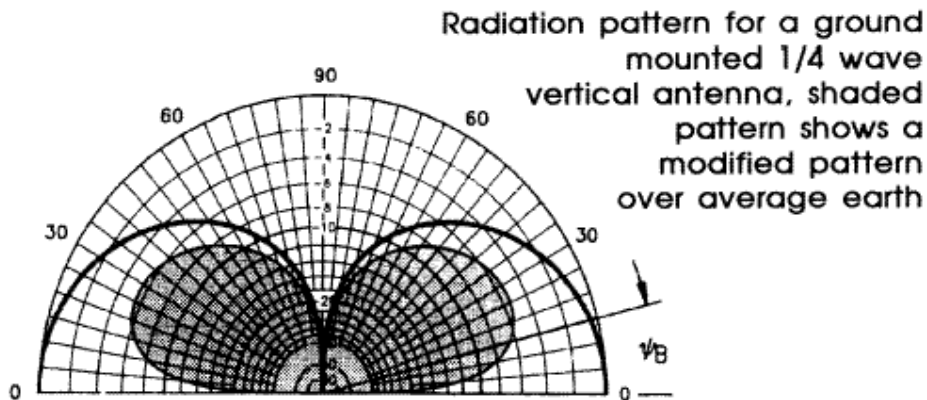
Constructed using tapered solid fibreglass rod, these antennas are helically wound or Copper braided quarter wave designs ideally to be used with a ground plane. Best results are achieved when the antenna is mounted in the centre of a vehicle's roof. Braided Antennas typically exhibit increased performance due to the low resistance of the brass Ferrule and copper braid. These antennas are finished with Black UV stable PVC Heatshrink as standard, but for longer life we can offer customers a thick wall PVC or Polyolefin Heatshrink - add suffix "HD" to the off the Model number (e.g.: A – 202HD).

MODEL A – 202
3.6Ft (1070mm long) Fibreglass whip VHF High Band
70 –85 MHz Braided ¼ Wave Unity Gain antenna

MODEL A – 205
1.7Ft (520mm long) Fibreglass whip VHF High Band
148-175 MHz Braided ¼ Wave Unity Gain antenna

MODEL A – 200
5Ft (1520mm long) Fibreglass whip VHF Low Band 70-85 MHz
Wound ½ Wave 2.5 Db Gain antenna

MODEL A – 201
4.5Ft (1370mm long) 5/8 Wave Fibreglass whip
VHF High Band 148-175 MHz Unity Gain antenna
Braided 3 dB Gain antenna incorporating a base-phasing coil



VHF Mobile Antennas

VHF STAINLESS STEEL ANTENNAS

Manufactured from High-grade stainless steel, these antennas are fitted with the Australian standard 26 TPI threaded ferrule for easy mounting to standard bases. Stainless Steel antennas are electrically designed to be used with a ground plane. Best results are achieved when the antenna is mounted in the centre of the vehicle's roof.

Stainless Steel antennas are generally purchased for their extended life span, as they are capable of handling abusive environments. This characteristic trade-off does although reduce the electrical performance of the antenna in comparison to braided Fibreglass whips.

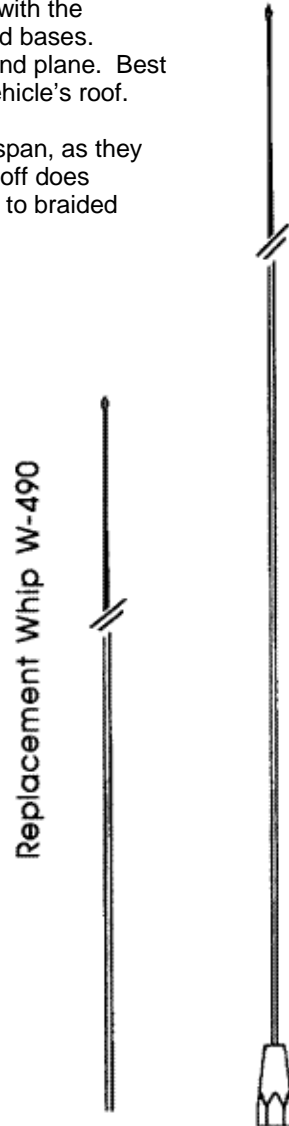
MODEL A – 206
3.5Ft (1070mm long) ¼ Wave
Stainless Steel Parallel Whip Unity Gain
VHF Low Band 70 to 85 MHz

MODEL A – 206T
3.5Ft (560mm long) ¼ Wave
17-7ph Tapered Stainless Steel
Unity Gain VHF Low Band 70-85 MHz

MODEL A – 207
1.1Ft (560mm long) ¼ Wave
Stainless Steel Whip Unity Gain
VHF High Band 148-175 MHz

MODEL A – 755
Ferrule only to suit any standard VHF26TPI threaded base.
This ferrule is fitted with a grub screw adjustment, which allows for the easy replacement of any stainless steel whip.
In particular this ferrule was designed to accept the W – 490 tapered, super flexible Larsen Stainless Steel Whip.

MODEL W – 490
Whip only, tapered, super flexible Stainless Steel whip
VHF Low Band 70-85 MHz Unity Gain



A-755 Ferrule
With Screw Adjustment
acceptst W-490 Whip

VHF Mobile Antennas

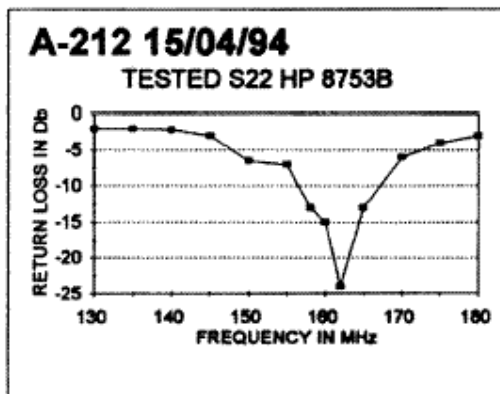
VHF GROUND INDEPENDENT STAINLESS STEEL ANTENNA

The A – 212 is an extremely flexible, electrically designed $\frac{1}{2}$ wave ground independent antenna utilizing a precipitation hardened 17.7PH tapered stainless steel whip. The whip is supplied with an impedance transformer that is air wound and encased in a fibreglass housing to ensure low loss.

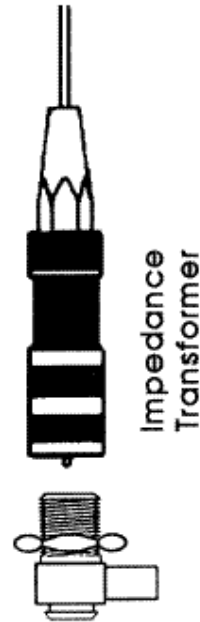
The antenna has a mounting connector rather than a thread receptacle. This antenna mounts to a SO239 (CN-006) female connector, which fits a 5/8" diameter hole mirror or gutter bracket if required.

Tuning is by removing the set screw in the ferrule at the base of the antenna and cutting the whip to the required length with bolt cutters.

MODEL A – 212
4Ft (1219mm long) S/S G.I.D. Whip
VHF High Band 148-175 MHz
Ground Independent 2.5Db Gain
VSWR < 1.2 : 1
Impedance 50 Ohms



Replaceable Whip



CN-006 (SO239)
Mounting Connector



VHF Hand Held Portable Antennas

VHF HAND HELD PORTABLE ANTENNAS

Our range of portable antennas are engineered and manufactured with reinforcing at the critical connection between the radiating element and mounting point, to survive the twisting and flexing of every day use.

Our portable antennas are covered with a range of materials such as Polyolefin and PVC to optimize performance, loads and durability.

Our portables are available in a range of connector termination styles, BNC, TNC or PL259. Custom configurations are also available, should we not have a standard product suitable for your needs. In addition, we are able to offer customer pre-tuned antennas to specific frequencies if required.

MODEL A – 220
VHF Low Band 70-85 MHz
TNC termination connector

MODEL A – 222
VHF Low Band 70-85 MHz
BNC termination connector

MODEL A – 221
VHF Hi Band 148-175 MHz
TNC termination connector

MODEL A – 223
VHF Hi Band 148-175 MHz
BNC termination connector



UHF Mobile Antennas

UHF WHIPS (Type "UP")

Our standard range of UHF whips are manufactured using high quality fibreglass rod, braided and then finished with black PVC heatshrink for overall protection. The antennas design is based on a 5/8 wave phased to a load 1/2 wave, which produces a compressed pattern for optimum performance. This style of antenna is particularly good for high rainfall areas as it is not affected by water de-tuning the antenna as is the case with open coil constructions. The antennas are marked with their appropriate frequency colour identification bands.

UHF SLOPE ADJUSTABLE WHIP (Type "USA")

Our patent design of UHF Slope Adjustable whips were introduced to fit late model vehicles with their sloping fenders and bonnets. Our Built-In Slope Adjustment enable you to fit the antenna directly to a mounting base without the aid of a slope adjusting adaptor to keep the antenna perfectly upright. Introducing any form of adaptor into your antenna's configuration degrades the performance. The slope adjustment is an integrated function of the antenna therefore does not suffer any operational degradation.

To adjust the slope of the antenna once mounted, simply grasp the adjusting section just above the Ferrule and gently ease it into the desired position - *"It's that easy!"*

MODEL A - 300
2.1Ft (625mm long) Slope Adjustable
UHF Whip 450-470 MHz 4dB Gain

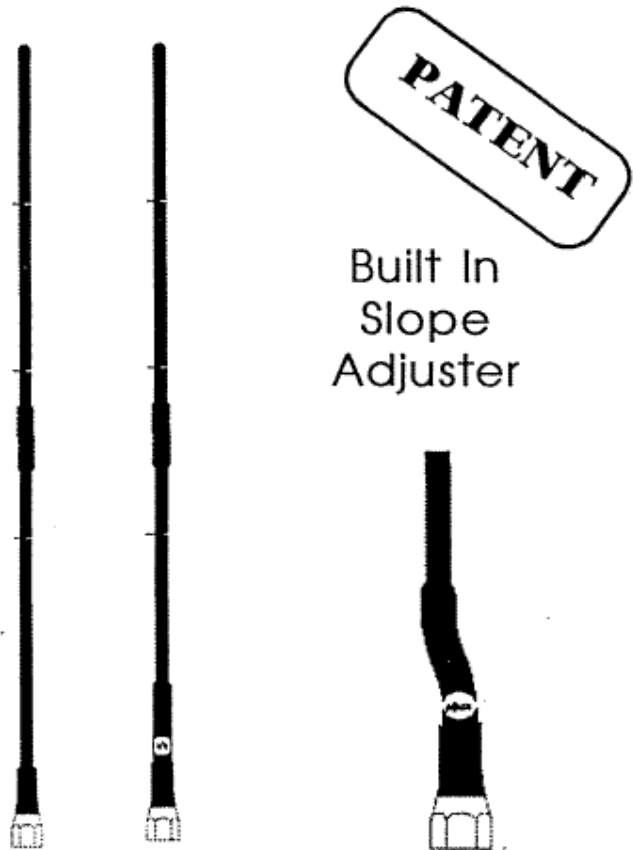
MODEL A - 301
2Ft (440mm long) Slope Adjustable
UHF Whip 470-520 MHz 4dB Gain

MODEL A - 302
1.84Ft (560mm long) Slope Adjustable
UHF Whip 490-520 MHz 4dB Gain

MODEL A - 311
2.1Ft (625mm long) Standard Whip
450-470 MHz (Red Band) 4dB Gain

MODEL A - 312
1.95Ft (595mm long) Standard Whip
470-490 MHz (Blue Band) 4dB Gain

MODEL A - 313
1.82Ft (555mm long) Standard Whip
490-520 MHz (Yellow Band) 4dB Gain



UHF Mobile Antennas

UHF FLEXIBLE ANTENNAS

This antenna range is ideally suited for high vehicles such as vans and 4WD's. Being small, this Antenna can be mounted to the roof gutters unobtrusively.

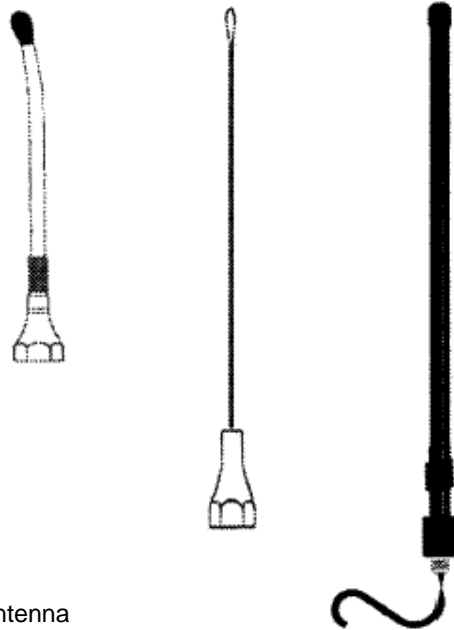
Each antenna is manufactured from high grade multi-stranded stainless steel cable, enclosed in flexible PVC coating and marked with the frequency identification colour code at the base.

MODEL A – 314
6.5 (165mm long) ¼ Wave UHF Flexi
400-450 MHz (Black Band) Unity Gain

MODEL A – 315
6.4" (160mm long) ¼ Wave UHF Flexi
450-470 MHz (Red Band) Unity Gain

MODEL A – 316
6" (150mm long) ¼ Wave UHF Flexi
470-490 MHz (Blue Band) Unity Gain

MODEL A – 317
Yellow Band Flexi-Whip



UHF STAINLESS STEEL ANTENNA

MODEL A – 318
7" (180mm long) ¼ Wave UHF Stainless Steel Antenna
400 to 520 MHz, Unity Gain

UHF FLEXIBLE DIPOLE

The A – 306 Flexible Ground Independent dipole have enjoyed many years of popularity due to its rugged construction and consistent performance. This antenna is designed for the 477 MHz UHF C.B frequency although commercial frequencies can be tuned upon request. This antenna is an ideal gutter mount antenna for commercial vehicles, particularly vans as the total length is only 1.2ft (35cm). The A – 306 is supplied as an antenna complete with 3.5 metres of Military spec RG58C/U coaxial cable, which make it quick to install and reliable in operation.

MODEL A – 306
UHF 477 MHz ½ Wave, 2.4Db Gain, Flexible Dipole

UHF Mobile Antennas Ground Independent

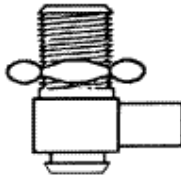
UHF 6Db MOBILE COLINEAR

The A – 326 is a High Gain, mobile Ground Independent antenna, designed to operate over the 470 to 490 MHz frequency range. This 5/8 wave over 5/8-wave style antenna offers 5.5DB gain, 50 Ohm impedance with a VSWR of < 1.5:1. Standing 700mm tall, the fibreglass whip is covered with copper braid, which combined emulates a 6mm diameter copper rod for optimum current distribution and maximum bandwidth.

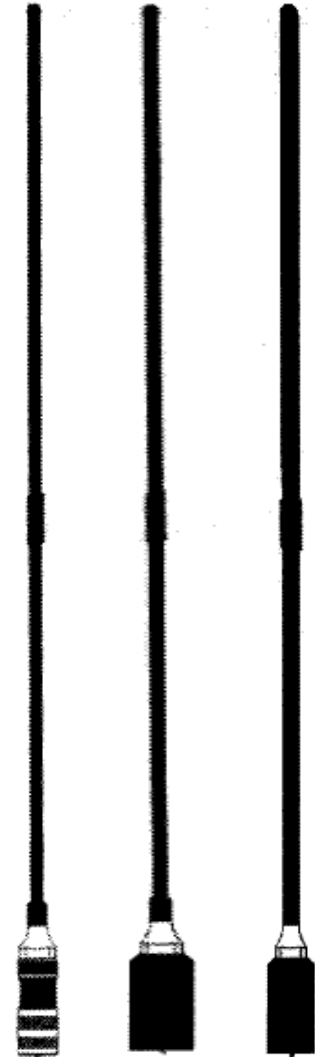
The antenna is supplied complete with an impedance transforming base coil to obtain the best possible match. With over 40,000 of these antenna's having been sold Australia wide, this antenna has proven ability and has earned its reputation as one of the best Mobile UHF antennas available.

The standard version A – 326 is supplied with a heavy duty PVC Heatshrink cover. For super heavy duty applications such as regular use on corrugated off-road conditions, we recommend you purchase our recently developed one piece base coil section version complete with heavy duty heatshrink, which will survive the most severe Environmental conditions.

MODELS	DESCRIPTION
A – 326	Standard 4.5mm 6Db Mobile Collinear
A – 326HDC	Standard 4.5mm whip & molded coil
A – 330	Heavy-duty 6mm Whip & molded coil
A - 326CHD	Heavy-duty coil only
CN – 006	Base for mounting A – 326 Antennas



**CN-006 (SO239)
Base Mounting
Connector**



UHF 477 MHz Basestation Antennas

UHF 6dB COLINEAR BASESTATION ANTENNA

This basestation antenna is an extremely efficient antenna, suitable for a variety of domestic & commercial applications.

The antenna is constructed from aluminium & copper/polyethylene conductors, which allow for a maximum recommended power rating of 100 watts. The exterior of the antenna has an aluminum mounting base tube 450mm long, attached to a tapered fiberglass Cylindrical radome giving this antenna an overall length of 2.4 metres.

SPECIFICATIONS

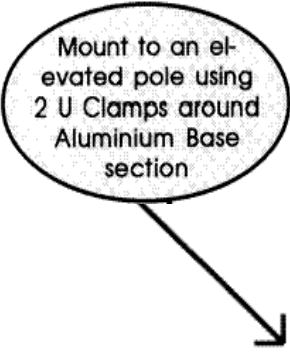
Model	A – 309
Frequency range	475 to 490 MHz
Gain	6dBd
Impedance	50 Ohms
VSWR	< 1.3 : 1
Style	Stacked element 5/8 over 5/8 Wave Collinear
Connector type	N series Jack (Female)
Dimensions	2400mm H x 25.4mm Dia to a taper of 13mm at tip
Colour	Anodized aluminium base, white radome

UHF 12Db COLINEAR BASESTATION ANTENNA

The A – 308 is the premium UHF C.B basestation antenna. Constructed from solid brass elements with Teflon spacers to form a coaxial airline stacked dipole arrangement, it's ultra low loss and large number of elements combine to produce the optimum chain available in a vertical omni-directional antenna. Maximum power input is conservatively rated at 150 watts.

SPECIFICATIONS

Model	A – 308
Frequency range	475 to 490 MHz
Gain	12 dBd
Impedances	50 Ohms
VSWR	1.3 : 1
Style	Stacked element 5/8 over 5/8 Wave Collinear
Connector type	N series Jack (Female)
Dimensions	4825mm H x 40mm Dia to a taper of 13mm at tip.
Colour	Anodized aluminium base, white radome



Mount to an elevated pole using
2 U Clamps around
Aluminium Base
section



UHF Hand Held Portable Antennas

UHF HAND HELD PORTABLE ANTENNAS

Our range of portable antennas are engineered and manufactured with reinforcing at the critical connection between the radiating element and mounting point, to survive the twisting and flexing of every day use.

Our portable antennas are covered with a range of materials such as polyolefin and PVC to optimize performance, looks and durability.

Our portables are available in a range of connector termination styles, BNC, TNC or PL259. Custom configurations are also available should we not have a standard product suitable for your needs. In addition, we are able to offer customer pre-tuned antennas to specific frequencies if required.

MODEL A – 321
9.5" (240mm long) Super Flexible
UHF 400-520 MHz ¼ Wave
TNC termination connector

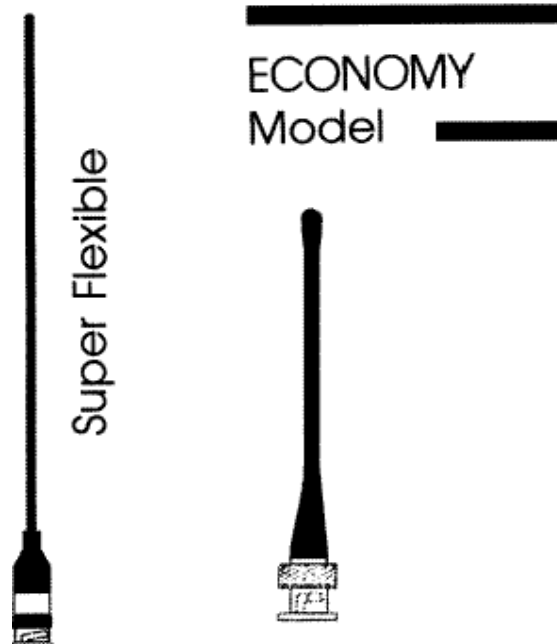
MODEL A – 322
9.5" (240MM LONG) Super Flexible
UHF 400-520 MHz ¼ Wave
BNC termination connector

MODEL A – 334
9.5" (240mm long) *Economy Model
UHF 400-520 MHz ¼ Wave
TNC termination connector

MODEL A – 335
9.5" (240mm long) *Economy Model
UHF 400-520 MHz ¼ Wave
BNC termination connector

MODEL A – 323
2"(50.5mm long) STUMPY
UHF CB 477 MHz BNC Connector

MODEL A – 324
2.5" (60.5mm long) STUMPY
UHF Amateur Band 436 MHz
BNC termination connector



UHF Hand Held Portable Antennas Ground Independent

UHF GROUND INDEPENDENT HAND HELD PORTABLE ANTENNA

Specifically designed for performance and economically produced are our new range of UHF Ground Independent Hand Held Portable Antennas A – 337 and A –338. These antennas enhance the performance of portable UHF frequency radios, as the design is based around a ½ wave dipole configuration, offering 2.5Db typical gain over a 450 to 500 MHz frequency range. Being a ground independent design, this antenna needs no ground plane to achieve its performance.

These antennas are extremely robust and are manufactured with cost and performance as major considerations for high volume users. Our antennas are so flexible, they can be tied into a knot without damage or performance degradation. Improvements have been made in both material used and method of construction to withstand severe punishment.

This antenna is also available in a range of frequencies from 400 to 900 MHz with a variety of other standard fittings.

MODEL A – 337
UHF 450-500 MHz G.I.D
Hand Held Portable Antenna
BNC Connectorised fitting

MODEL A – 338
UHF 450-500 MHz G.I.D
Hand Held Portable Antenna
TNC Connectorised fitting

MODEL A – 341
UHF 450-500 MHz G.I.D
Hand Held Portable Antenna
PL148 Base (screws on to CN006)

SUPER FLEXIBLE
\$\$\$\$
COST EFFECTIVE
&
ROBUST
* THE PERFECT SOLUTION

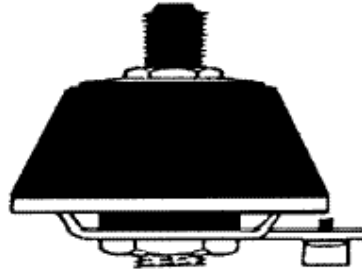


UHF Antenna Accessories

BASES

Our UHF low profile bases are constructed from UV stable Polypropylene and a 5/16" 26 TPI plated brass bolt.

Australian
Standard
UHF Base



MODE	DESCRIPTION
A – 753	Black Base

ASSEMBLIES – BASE, LEAD & PLUG

All assemblies are manufactured and fully tested within our factory at Ingleburn, NSW. Cable used is high quality military specification cable with excellent braid coverage. Assemblies are manufactured to standard lengths, although custom made to order lengths are also available upon request. Plugs used on assemblies are the standard UHF (PL259) male plug unless otherwise indicated.

SPECIFICATIONS

Frequency Range	DC to 520 MHz
Impedance	50 Ohms
VSWR	< 1.1 : 1
Mounting	½" round or square hole

MODEL

A – 652
A – 662
A – 659
A – 667
A – 664
A – 666
A – 700

DESCRIPTION

Black base, 3.5 Mtrs of RG58C/U Coaxial Cable
Black base, 3.5 Mtrs of RG58C/U Coaxial Cable + PL259 Plug
Black base, 3.6 Mtrs of RG58C/U Coaxial Cable
Black base, 5.0 Mtrs of RG58C/U Coaxial Cable
Black base, 3.6 Mtrs of RG58C/U Coaxial Cable + BNC Straight Plug
Black base, 3.6 Mtrs of RG58C/U Coaxial Cable + PAL Straight Plug
3.6 Mtrs of RG58C/U Coaxial Cable + Standard PL259 Plug (No Base)



Cellular Frequency Antennas 825 to 960 MHz

CELLULAR MOBILE WHIP

The A – 407 is a braided solid fibreglass whip covered with PVC heatshrink. This antenna exhibits exceptional performance characteristics for a cellular antenna. Its design is based on a 5/8 wave, phased to a loaded ½ wave, which produces a compressed pattern with consistent performance.

The A – 407 requires a ground plane (car roof surface for instance) of at least 150mm x 150mm for peak efficiency, however satisfactory performance is normally achieved with both gutter and mirror mounts. Please see our A – 406 range for ground independent antennas if required.

Of particular note in high rainfall areas is that this style of antenna is not affected by water detuning the centre coil, which tends to be a major problem with open coil stainless steel type antennas.

Specifications

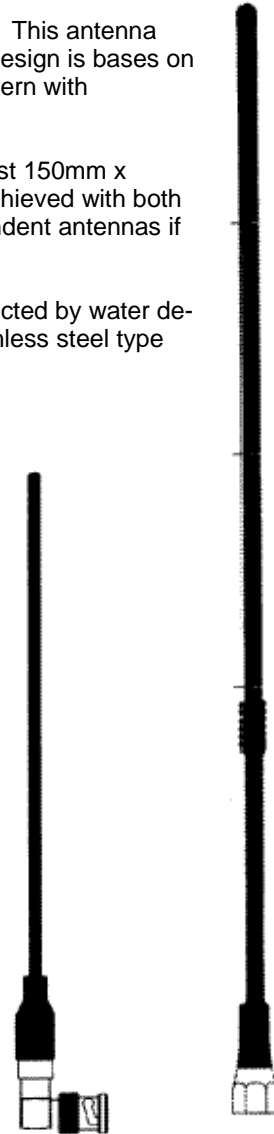
Model	A - 407
Frequency Range	825 to 870 MHz
Gain	4dB
Impedance	50 Ohms
VSWR	< 1.5 : 1
Style	5/8 over ¼ Wave Braided Whip
Mounting	Suits 5/16"26TPI – Base A – 751
Dimensions	363mm x 7mm
Colour	Black

CELLULAR PORTABLE ANTENNA

Our New A – 408 Cellular 800 to 900 MHz has a right angle mounting system suitable for hand held application.

MODEL A – 408

Cellular 800-900 MHz ½ Wave, 2.5DB Gain with suitable Ground plane right angle mobile.



Cellular Frequency Antennas 825 to 850 MHz

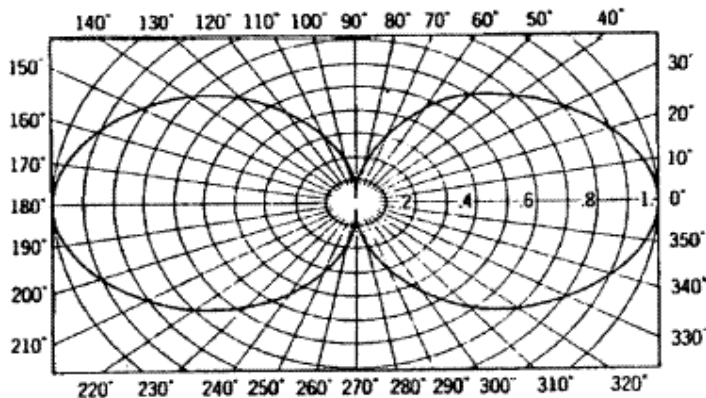
FLEXIBLE CELLULAR DIPOLE

Based on our A – 306 UHF dipole style antenna, this coaxial dipole with its omnidirectional pattern and low impedance match is exceptionally well suited to the Australian cellular phone system. Unlike most Hi-gain mobile antennas the A – 406 requires no extra mounting base, ensuring that the feed impedance is constant and the antenna will perform consistently well.

Mounting requires only a 12.5mm diameter hole, our A – 758 mirror bracket or A – 756 gutter grip are ideal mounting methods.

SPECIFICATIONS

Part Number	A – 406
Frequency Range	825-850 MHz
Gain	2.5 dB
Style	½ Wave Dipole
Impedance	50 Ohms
VSWR	< 1.8:1
Mounting	½" threaded cable tail
Dimensions	200mm long x 12mm dia
Colour	Black



Typical 1/2 Wave
Dipole
Radiation Pattern

AM-FM Receiving Antennas

AM – FM RECEIVING ANTENNAS

MODEL A – 050
3Ft (900mm long) AM – FM Kit consisting of a Black fibreglass receiving antenna complete with 1.5 metres of coaxial cable & radio plug assembled ready for installation.

MODEL A – 051
3Ft (900mm long) AM – FM Antenna only

MODEL A- 057
5Ft (1500mm long) AM – FM Kit consisting of a black fibreglass receiving antenna complete with 1.5 mtrs of coaxial cable & radio plug assembled ready for installation.

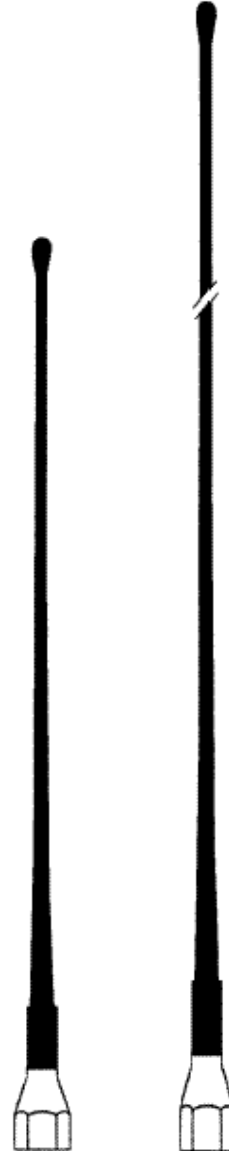
MODEL A – 056
5Ft (1500mm long) AM – FM Antenna only

CAR RADIO ANTENNA ACCESSORIES

MODEL A – 653
Lead assembly, Base, Radio plug & 1.5 mtrs of RG62A/U coaxial cable.

MODEL A – 751
Black base only

MODEL CN011
Standard AM – FM antenna plug



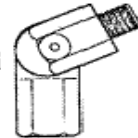
General Mounting Accessories

General Mounting Accessories

MODEL A-601
3/8" - 5/16" Female/Female
Plated brass adaptor



MODEL A-603
Folding angle adaptor
26TPI Male/Female thread
Plated brass.



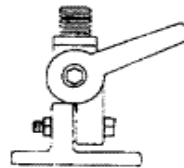
MODEL A-602
5/16" - 3/8" Male/Male
Plated brass adaptor



MODEL A-606
Medium/Heavy Duty Spring



MODEL A-762
Knock down adjustable UV
protected ABS material
Marine base (White).



General Mounting Accessories

GUTTER MOUNTS

MODEL A – 756
Gutter Mount Square Hole 1/2"

MODEL A – 757
Gutter Mount Round Hole 5/8"
With reducing sleeve

MODEL A – 760
Gutter Mount Round Hole 3/4" (19mm)

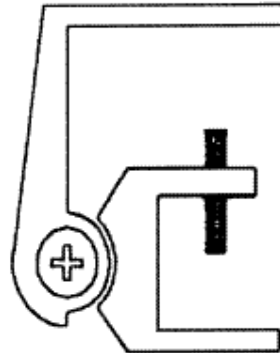
MODEL A – 761
Gutter Mount Round Hole 3/4" (19mm)

MIRROR MOUNT

MODEL A – 758
Standard mirror mount bracket
Complete Square hole 1/2"

MODEL A – 759
Standard mirror mount bracket
Complete Round hole 19mm

MODEL A – 759 – SS
Standard mirror mount bracket
Complete Round hole 19mm
Stainless Steel version



TRUNK / BONNET / GUTTER BRACKET

MODEL A – 607
"L" bracket complete with screws ready to mount

MODEL A – 607 – SS
"L" bracket complete with screws ready to mount
Stainless Steel version

MODEL A – 769
"Z" Standard bracket (Dim A 50mm High)
Complete with screws ready to mount

MODEL A – 770
"Z" Long bracket (Dim A 75mm High)
Complete with screws ready to mount

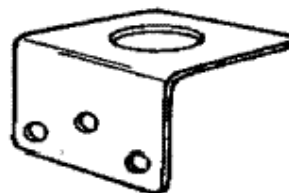
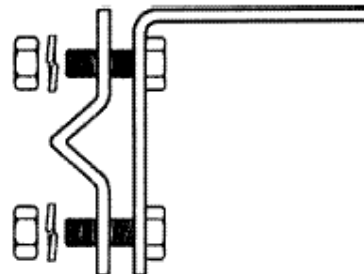
MODEL A – 767
"Z" Standard Bracket (Dim A 50mm High)
Left hand twist, complete with screws

MODEL A - 772
"Z" Standard Bracket (Dim A 50mm High)
Right hand twist, complete with screws

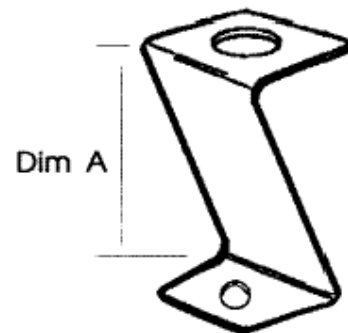
MODEL A – 792
Bull bar bracket (VA5BZZN)

MODEL A – 792 – SS
Bull bar bracket (Veltan VA6SS)
Stainless Steel version

MODEL To be advised
Universal Mount (Veltan UBS)



Brackets suit
all Australian
standard
antenna bases.



General Accessories Connectors

UHF Series CONNECTORS

Plugs, Sockets, & Adaptors



CN001 Crimp Plug to suit RG58



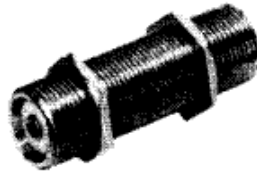
CN005 Solder Plug to suit RG58
CN003 Solder Plug to suit RG213



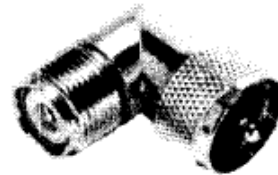
CN-006 (SO239)
Right Angle UHF Jack



CN014
Inline Jack to Jack adaptor



CN021
Inline long Jack to Jack adaptor



CN029
Right Angle Jack to Plug
adaptor



CN020
T adaptor Plug to Jack to Jack



CN019
T adaptor Jack to Jack to Jack



CN016
Reducer for PL259

General Accessories Connectors

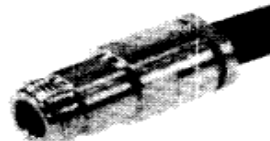
General Accessories Connectors

N Series CONNECTORS

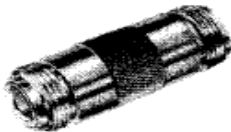
Plugs, Sockets, & Adaptors



R-161010 Plug to suit RG58
R-161020 Plug to suit RG213
CN028 Commercial plug to suit RG213



API-B30-033C Commercial,
Jack Crimp to suit RG58
R-161206 Jack to suit RG58
R-161218 Jack to suit RG213



CN024
Inline Jack to Jack adaptor



R-161703
Inline Plug to Plug adaptor

Detailed N Series catalogue is
available on request



R-161782
T adaptor
Jack to Jack to Jack



R-161780
T adaptor
Plug to Jack to Jack



General Accessories Connectors

BNC Series CONNECTORS

Plugs, Sockets, & Adaptors

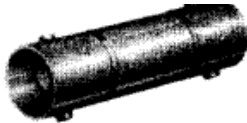


R-141082-161 Crimp plug to suit RG58
R-141007-161 Solder plug to suit RG58
R-141018 Solder plug to suit RG213



R-141237-161 Crimp jack to suit RG58
R-141206 Solder jack to suit RG58

API-B10-050 Commercial,
Jack Crimp to suit RG58
API-B10-048 Commercial, Plug to suit RG213



R-141704
Inline Jack to Jack adaptor



R-141703
Inline Plug to Plug adaptor



R-141770
Right Angle Plug to Jack adaptor

API-P694 Commercial Adaptor



R-141780
T adaptor Plug, Jack to Jack



R-141782
T adaptor Jack to Jack to Jack



Detailed BNC Catalogue
is available on request

General Accessories Connectors

BETWEEN Series ADAPTORS



CN026
N Jack to UHF Plug
adaptor



CN025
N Plug to UHF Jack
adaptor



CN024
UHF Plug to BNC Jack
adaptor



CN023
UHF Jack to BNC Plug
adaptor

A large variety of
adaptors are available,
should you
not find a
suitable adaptor
please contact
one of our
sales offices
for further
assistance and a
catalogue



CN010
PAL metal solder Plug



CN011
AM-FM Auto Antenna Plug

N Plug to BNX Jack
API-N155

N Jack to BNC Plug
API-B70-007

Phone Connectors

API-CN044P
Mini UHF Plug Crimp RG55

API-5259
Mini UHF Jack Crimp RG55

FME6121A1
FME Nipple Jack Crimp RG55

API-FME120
FME M-M Adaptor

API-FME110
FMEF-TNCF Adaptor

API-FME250
Mini UHFF-FMEF Adaptor

API-FME150
FMEM-Mini UHF M Adaptor

API-MUF250
TNCF-Mini UHF M Adaptor

API-MUF339
Mini UHF Plug to BNC Jack Adaptor

API-SMA58
SMA Plug Crimp RG58



General Accessories Cables & Cable Assemblies

BASESTATION LEAD ASSEMBLIES

MODEL	DESCRIPTION
CBL – 1	12" RG58, UHF plug to UHF plug assembly
CBL – 2	10 Mtrs RG213, UHF plug to N plug assembly
CBL – 3	20 Mtrs RG213, UHF plug to N plug assembly
CBL – 9	15 Mtrs RG213, UHF plug to N plug assembly
CBL – 10	25 Mtrs RG213, UHF plug to N plug assembly
CBL – 6	30 Mtrs RG213, UHF plug to N plug assembly
CBL – 4	10 Mtrs RG213, UHF plug to UHF plug assembly
CBL – 5	20 Mtrs RG213, UHF plug to UHF plug assembly
CBL – 8	30 Mtrs RG213, UHF plug to UHF plug assembly
CBL – 11	40 Mtrs RG213 Low Loss, UHF plug to N plug assembly

COAXIAL CABLE

Listed below are the most common Coaxial cables for Radio applications. Cable is generally supplied in 100 Mtr lengths (rolls); should you require shorter or longer lengths, please consult Rojone Pty Ltd.

MODEL	DESCRIPTION
RG58ALL	Low-Loss 50 Ohm PE Foam L/L
RG58C/U Black	50 Ohm MIL C17D standard ¼" black jacketed cable
RG58C/U White	50 Ohm MIL C17D standard ¼" white jacketed cable for marine use
RG213/U	50 Ohm MIL C17D standard ½" black jacketed cable
RG214/U	50 Ohm MIL C17D twin screened silver plated stranded copper Conductor, with PE dielectric for stability ½" black jacketed cable
RG62A/U	93 Ohm MIL C17D standard coaxial cable for car AM – FM radios
RG142/U	50 Ohm MIL C17D twin screened silver plated centre conductor, PTFE dielectric, ¼" black jacketed cable
RG174/U	50 Ohm miniature PVC cable
RG178B/U	50 Ohm miniature Teflon (PTFE) cable
RG179B/U	75 Ohm miniature Teflon (PTFE) cable

The following new range of LMR Series Low Loss cables was specifically designed for Radio Communications Installations.



General Accessories LMR Series Cable

Communications Coaxial Cable Selection Guide

Attenuation (dB per 100 Feet @ +25 C)									
	Heliax LDF6	Times LMR-1700	Heliax LDF5	Times LMR-1200	Times LMR-900	Times LMR-600	Heliax LDF4	Times LMR500	Heliax FSJ4
Frequency/Size Inches	1.550"	1.670"	1.090"	1.200"	0.870"	0.590"	0.630"	0.500"	0.520"
30 MHz	0.147	0.149	0.197	0.209	0.271	0.421	0.389	0.540	0.580
50 MHz	0.191	0.195	0.257	0.272	0.351	0.547	0.479	0.700	0.730
150 MHz	0.340	0.347	0.458	0.481	0.619	0.994	0.845	1.220	1.290
220 MHz		0.427		0.589	0.755	1.180		1.490	
450 MHz	0.817	0.832	0.834	0.864	1.100	1.720	1.510	2.170	2.320
900 MHz	0.907	0.836	1.230	1.290	1.600	2.500	2.200	3.130	3.380
1500 MHz	1.220	1.280	1.660	1.690	2.120	3.331	2.630	4.130	4.500
2000 MHz	1.450	1.500	1.970	1.990	2.490	3.900	3.450	4.840	5.310
Attenuation at Any Frequency = [k1 X SqRt (Fmhz)] + [k2 X Fmhz]									
k1		0.02640		0.37340	0.04855	0.07550		0.09657	
k2		0.00016		0.00016	0.00016	0.00026		0.00026	

Power Handling (kW @ +40 C @ Sea Level)									
	Heliax LDF6	Times LMR-1700	Heliax LDF5	Times LMR-1200	Times LMR-900	Times LMR-600	Heliax LDF4	Times LMR500	Heliax FSJ4
Frequency /Size Inches	1.550"	1.670"	1.090"	1.200"	0.870"	0.590"	0.630"	0.500"	0.520"
30MHz	17.4	16.5	10.1	8.8	4.4	3.1	3.49	2.8	3.78
50 MHz	13.4	12.8	7.74	6.7	3.3	2.4	2.89	2.2	2.91
150 MHz	7.5	7.1	4.34	3.8	1.9	1.4	1.52	1.2	1.65
220 MHz		5.8		3.1	1.8	1.1		1.0	
450 MHz	4.13	3.9	2.38	2.1	1.0	0.77	0.850	0.70	0.82
900 MHz	2.81	2.6	1.62	1.5	0.70	0.53	0.586	0.49	0.63
1500 MHz	2.08	1.9	1.2	1.1	0.51	0.40	0.439	0.37	0.47
2000 MHz	1.78	1.6	1.01	0.9	0.44	0.34	0.373	0.31	0.40

Trademarks are the exclusive property of their respective owners.

General Performance Properties									
	LMR1700	LMR1200	LMR900	LMR600	LMR500	LMR400	LMR240	LMR200	LMR100
Conductor (Note 1)	0.527"	0.349"	0.282"	0.178"	0.142"	0.108"	0.058"	0.044"	0.022"
Dielectric (Note 2)	1.350"	0.920"	0.680"	0.455"	0.370"	0.285"	0.150"	0.116"	0.062"
Shield ALUM + TC (Note 3)	1.402"	0.973"	0.732"	0.490"	0.405"	0.320"	0.178"	0.144"	0.085"
Jacket Black PE (Note 4)	1.670"	1.200"	0.870"	0.580"	0.500"	0.405"	0.240"	0.195"	0.105"
Bend Radius (Note 5)	13.5"	6.5"	3.0"	1.5"	1.25"	1.0"	0.75"	0.50"	0.25"
Weight (lbs/foot)	0.74	0.51	0.29	0.13	0.1	0.07	0.04	0.03	0.012
Temperature Range	- 40 to + 85 C								
Impedance	50 Ohms								
Velocity (%)	89	88	87	87	86	85	84	83	80
Capacitance (pF per foot)	22.8	23.1	23.4	23.4	23.6	23.9	24.2	24.5	25.4
DC Resistance Ctr Conductor	0.21	0.32	0.54	0.53	0.62	1.39	3.2	5.36	21.4
(Ohms/1000') Shield	0.27	0.37	0.55	1.2	1.27	1.65	3.89	4.9	14.5
Shielding	> 90 dB								
Phase Stability	+/-10 ppm/deg C								



General Accessories

LMR Series Cable

Attenuation (dB per 100 Feet @ +25 C)									
	Times LMR-400	Belden 9913	RG213/ RG214	Hellax FSJ1	Times LMR-240	Belden RG8X	Times LMR-200	RG-58	Times LMR-100
Frequency/Size Inches	0.405"	0.405"	0.405"	0.300"	0.240"	0.242"	0.195"	0.195"	0.105"
30 MHz	0.7	0.8	1.2	0.98	1.3	2.0	1.8	2.5	3.9
50 MHz	0.9	0.9	1.8	1.27	1.7	2.5	2.3	3.1	5.1
150 MHz	1.5	1.6	2.8	2.23	3.0	4.7	4.0	6.2	8.9
220 MHz	1.8		3.6		3.7	6.0	4.8	7.4	10.9
450 MHz	2.7	2.8	5.2	3.93	5.3	8.8	8.9	10.8	15.8
900 MHz	3.9	4.2	8.0	5.88	7.8	12.8	9.9	16.5	22.8
1500 MHz	5.1	5.6		7.47	9.9		12.9		30.0
2000 MHz	6.0	6.7		8.73	11.5		15.0		35.0
Attenuation at Any Frequency = [k1 X SqRt (Fmhz)] + [k2 X Fmhz]									
k1	0.11971				0.24222		0.31984		0.67074
k2	0.00032				0.00033		0.00033		0.00174

Power Handling (kW @ +40 C @ Sea Level)									
	Times LMR-400	Belden 9913	RG213/ RG214	Hellax FSJ1	Times LMR-240	Belden RG8X	Times LMR-200	Mill Std RG-58	Times LMR-100
Frequency /Size Inches	0.405"	0.405"	0.405"	0.300"	0.240"	0.242"	0.195"	0.195"	0.105"
30MHz	2.1	2.2	1.8	1.28	0.98	0.35	0.67	0.40	0.33
50 MHz	1.7	1.7	1.2	0.99	0.75	0.28	0.52	0.30	0.25
150 MHz	1.0	0.90	0.62	0.56	0.42	0.15	0.30	0.16	0.14
220 MHz	0.83				0.34		0.25		0.12
450 MHz	0.55	0.45	0.30	0.32	0.24	0.08	0.17	0.08	0.08
900 MHz	0.38	0.28	0.18	0.22	0.17	0.05	0.12	0.05	0.05
1500 MHz	0.28	0.20		0.184	0.13		0.08		0.045
2000 MHz	0.25	0.18		0.14	0.11		0.08		0.035

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Notes

- (1) Center conductor in LMR-900, LMR-1200 & LMR-1700 is Copper Tube.
Center conductor in LMR-400, LMR-500 & LMR-600 is Copper Clad Aluminum.
Center conductor in LMR-100, LMR-200 & LMR-240 is Bare Copper.
- (2) Low Loss, closed cell polyethylene foam.
- (3) Aluminum Laminated Tape Bonded to the Dielectric with a Tinned Copper Overbraid.
- (4) Black, UV Protected Polyethylene.
- (5) Less than 1 Ohm impedance change at bend.



General Accessories

LMR Connectors

LMR Series Connectors

TC-200-NM	N male plug, crimp connector
TC-200-BM	BNC male plug, crimp connector
TC-200-TMC	TNC male plug, clamp connector
TC-200-SM	SMA male plug, crimp connector
TC-200-TF	TNC female jack, crimp connector
TC-200-SMRP	SMA male plug with female contact (reverse polarity)
TC-240-NMC	N male plug, clamp connector
TC-240-BMC	BNC male plug, clamp connector
TC-240-TMC	TNC male plug, clamp connector
TC-240-SM	SMA male right angle plug, crimp connector
TC-240-SM-RA	SMA male right angle plug, crimp connector
TC-240-SMRP	SMA male plug with female contact (reverse polarity)
TC-400-NM	N male plug, crimp connector
TC-400-NMC	N male plug, clamp connector
TC-400-NFC	N female jack, clamp connector
TC-400-TM	TNC male plug, crimp connector
TC-400-BM	BNC male plug, crimp connector
TC-400-716MC	7/16 DIN male plug, clamp connector
TC-400-716FC	7/16 DIN female jack, clamp connector
TC-500-NMC	N male plug, clamp connector
TC-500-NFC	N female jack, clamp connector
TC-500-NMC-RA	N male right angle plug, clamp connector
TC-500-TMC	TNC male plug, clamp connector
TC-500-SMC	SMA male plug, clamp connector
TC-500-UMC	UHF male plug, clamp connector
TC-500-716MC	7/16 DIN male plug, clamp connector
TC-500-716FC	7/16 DIN female jack, clamp connector
TC-600-NMH	N male plug, crimp, hex coupling nut connector
TC-600-NMC	N male plug, clamp, hex coupling nut connector
TC-600-NFC	N female jack, clamp connector
TC-600-NMC-RA	N male plug, no solder, crimp, hex coupling nut connector
TC-600-UMC	UHF male plug, clamp connector
TC-600-716MC	7/16 DIN male plug, clamp connector



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