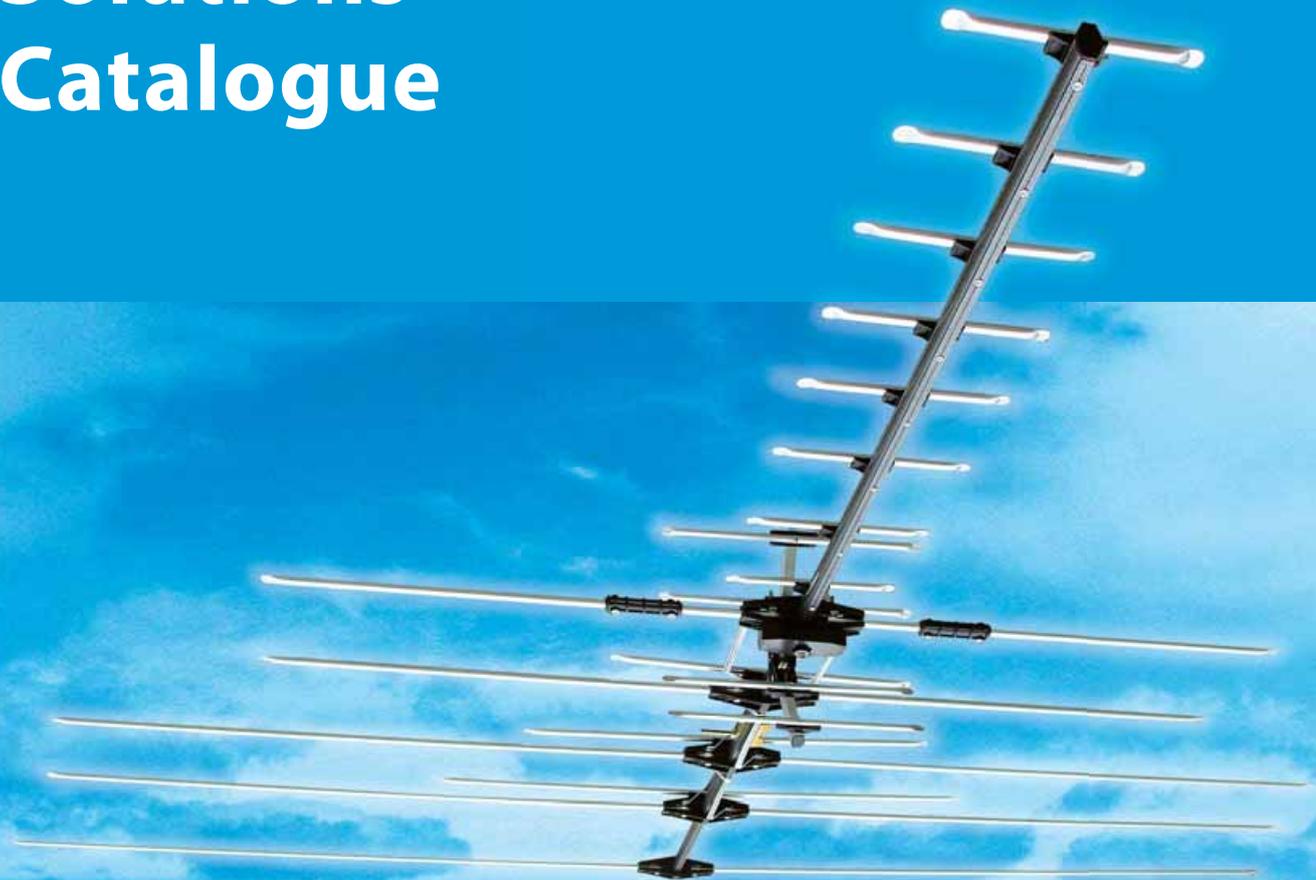




TV Cabling Solutions Catalogue



When it comes to antenna installation, the choice is clear 

Choosing the Right Antenna

The new version of TV Across Australia will include the most up to date planning and implementation of all analogue and digital broadcast TV services throughout the country.

It will also include an antenna selection for each transmitter making choosing the right antenna a very simple exercise. You cannot afford to be without this great reference guide.

What frequencies are being broadcast in the location of the installation?

- Every TV transmitter Across Australia
- Clipsal Antenna part number for every TV transmitter
- Location maps for every TV transmitter Across Australia
- Analogue and Digital TV channels broadcast from every TV transmitter





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- ▶ 6 MATV basics
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Terminology

Amplification

The increase of signal strength. Amplification does not improve the signal quality received but can improve the picture quality viewed on TV due to low signal strength.

Attenuation

The loss of signal strength. To Attenuate the signal strength is to decrease the level of the signal strength. Attenuation occurs naturally over a length of cable. Refer to cable losses on page 8 for values.

BER

Bit Error Ratio is the number of errors in a Video Broadcast. Typically 2 errors in every 1,000,000 will be acceptable.

Forward Gain

The amount an antenna increases the signal strength in the air.

Front to Back ratio

The difference in signal level received from the front of the antenna versus the back of the antenna. Antennas are designed to reject signals received from the back of the antenna. Good Front to Back ratio reduces the chance of ghosting.

Ghosting

Two images of the same source on the one TV Screen caused by two signals received by the same Antenna from two different directions. Often there is the main signal source and a secondary source reflected off a building or mountain.

Losses

The signal strength is decreased over cable, splitters and connectors. Compensation for losses must be made when designing a MATV system.

RF

Radio Frequency.

Skin effect

TV frequencies travel around the circumference of the copper conductor in a coax cable. It is important to make sure that when terminating coax cable for MATV or Satellite TV applications that a properly designed stripping tool is used. Avoid scoring or ringing the copper conductor as TV frequencies travel on the outside circumference of the copper conductor.

UHF

Ultra High Frequency.

UHF channels are broadcast from channel 21-69. Digital and analogue frequencies.

VHF

Very High Frequency.

VHF Low are channels 0-5A. analogue frequencies.

VHF High are channels 6-12. Digital and Analogue frequencies.

Digital TV will only be broadcast on VHF channels 6 and above as well as all UHF channels.



Terminology



Amplifier

An amplifier will increase the signal strength. Amplifiers DO NOT improve the signal quality.



Antenna

Antennas receive TV frequencies broadcast from TV Transmission Towers. They need to be mounted in a location that will receive a good quality signal. There are different types of antennas that are designed for receiving different types of frequencies. Refer to TV Across Australia reference guide for your needs.



Cable

Quality Television Coax Cable is designed to carry the television frequencies from the antenna to the television without any interference to the signal and resultant picture quality. You should only use a good quality cable.



Diplexer

Diplexers combine TV signals from 2 antennas through 1 coax cable.



Drop Tap

A Drop Tap will decrease the signal level by a set amount over the Tap Leg. If the signal is too high the use of a Drop Tap is an easy way to get the signal to the ideal level.



Fly Lead

A Fly Lead connects the outlet to the television or recording device such as a Digital Video Recorder. A good quality Fly Lead should always be used as it is under the most stress from bending behind television cabinets and induced voltage from cords behind the television.



Mounts

There are various antenna mounts for different applications such as roof mounts, wall mounts, masts and extensions. Get the best possible signal by mounting the antenna properly.



Splitter

A splitter will enable the connection of multiple outlets to 1 antenna. Splitters have losses associated with them. The more splits the greater the losses will be.



Television Outlet

Television outlets are part of the cabling infrastructure and should be of a high quality for sustained signal distribution. F-Type outlets are the industry preferred television outlet due to the quality of connection and performance.



TV Signal Strength

TV signal strength is measured in decibel Micro Volts (dBuV) more commonly known as dB.

The ideal signal strength at the television outlet is **69dBuV**. The ideal Signal Range is between **65-72dBuV**.

Low signals need to be increased. This can be achieved by using a larger antenna with more gain or by the use of an amplifier.

High signals need to be decreased. This can be achieved by using a drop tap or splitter.

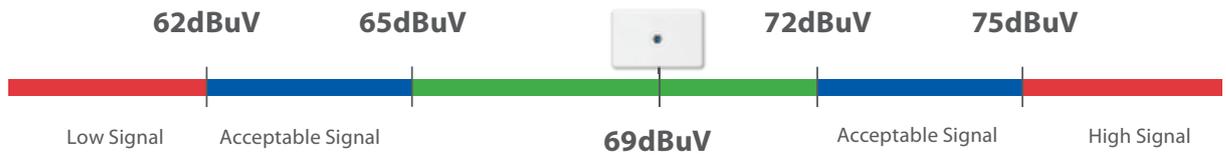
The closer the antenna is to the television transmitter the higher the signal strength is going to be.

The prime reception area is a location that an antenna with minimal gain can be installed to get the ideal signal range or above at the television outlet.

An outer fringe reception area is a location that an antenna with maximum amount of gain must be installed to provide an ideal signal range at the outlet. It is also likely that an amplifier may need to be installed to increase the signal level.

MATV Outlet - 69dBuV

Standard Outlet - 240V



By using the same antenna and 20m of RG6 Quad Shield Coax Cable we can classify the Prime, Fringe and Outer Fringe areas by the level of signal received at the outlet.

If in a Prime reception area the signal strength will be greater than 69dBuV at the outlet.

If in a Fringe reception area the signal strength will be greater than 66dBuV at the outlet.

If in a Outer Fringe Area the signal will be lower than 66dBuV.

To compensate for a Fringe Area reception we can use an antenna with more forward gain to increase the signal strength at the outlet.





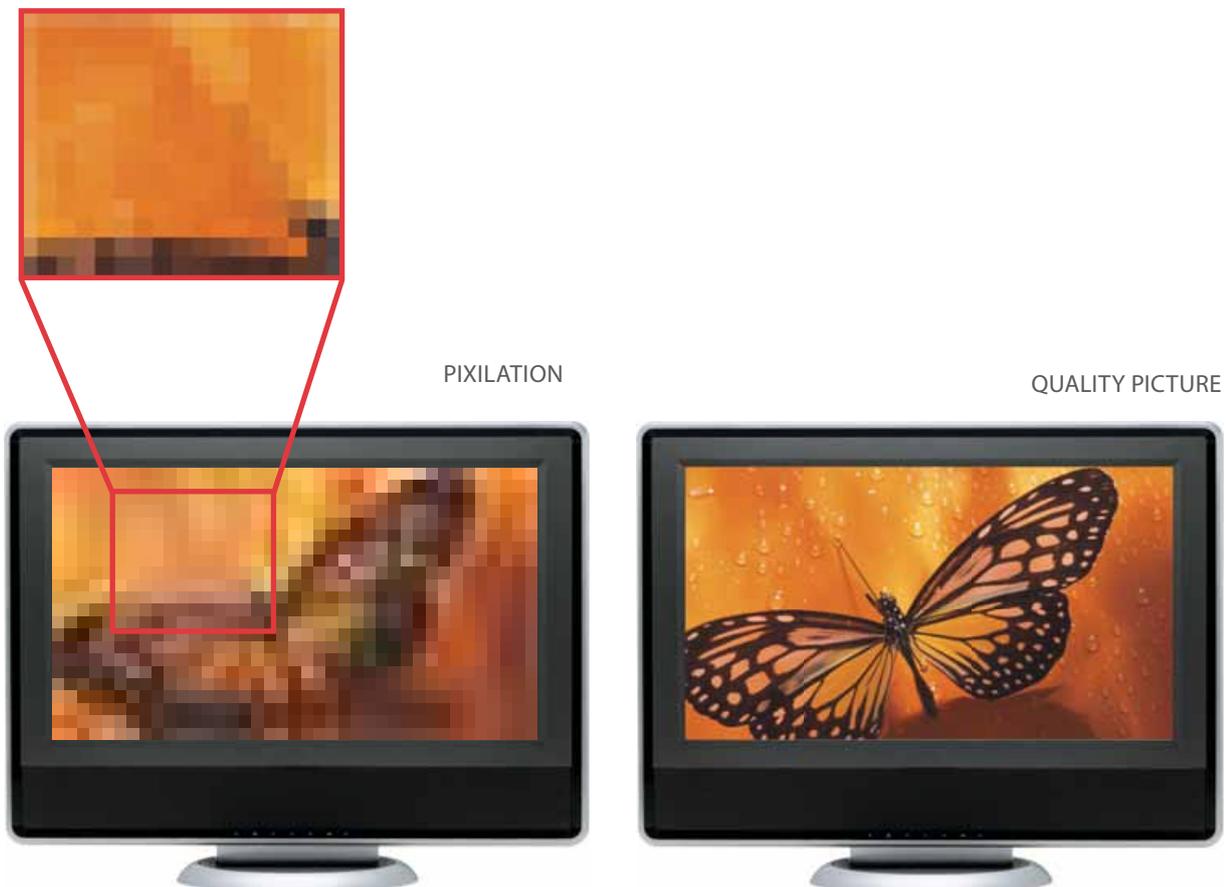
Signal Quality

Signal quality is more important than signal strength.

Pixilation or blocking are the result of poor quality digital television signal. When an antenna is installed it must be in a location that has a good quality Digital Television Signal. The difference between quality television reception and annoying pixilation/blocking can be a matter

of a few metres. A site survey can be done prior to antenna installation to make sure that the location of the antenna is suitable for high quality digital television reception.

Take a few minutes to walk along the roof with the antenna and field strength meter to find the ultimate location to mount the antenna.





Signal Loss - Cable

Losses are a part of any MATV System. You may start out with an acceptable signal level at the antenna but due to losses in the cable or splitter may not be acceptable when at the outlet.

Signal Strength is lost over a length of cable. The losses are easy to calculate as losses are consistent per meter.

Losses are calculated separately for VHF and UHF frequencies. The golden rule is the higher the frequency the higher the loss. We need to calculate losses for both VHF and UHF in every TV design to ensure that we have a balanced system.

VHF = Very High Frequency - losses are low. (0.053dB per meter RG6 Quad Shield).

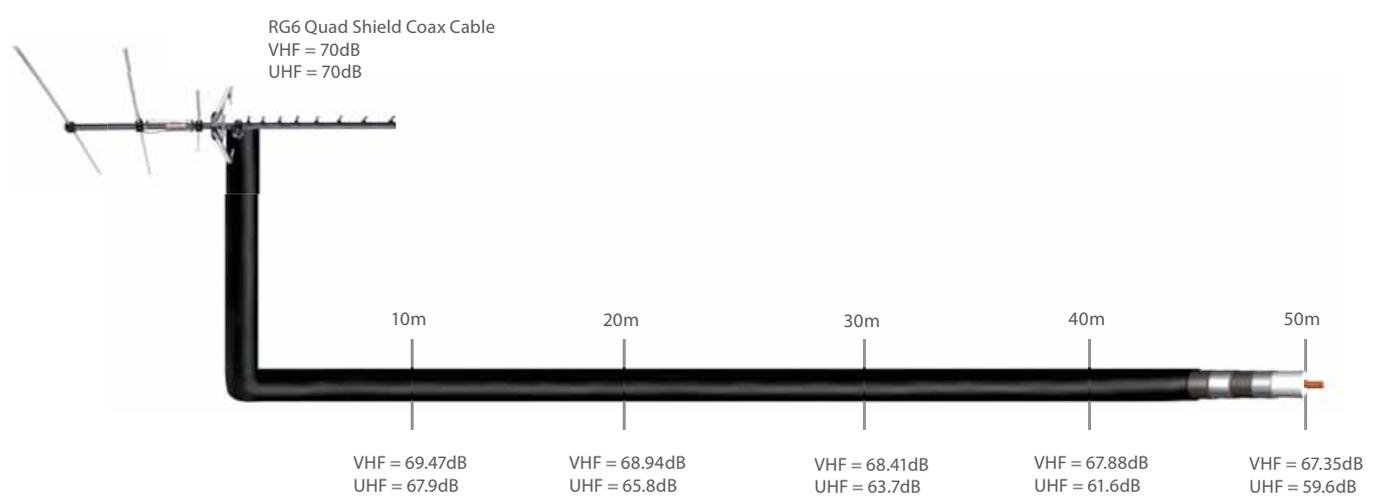
UHF = Ultra High Frequency - losses are high (0.21dB per meter RG6 Quad Shield).

As a general rule of thumb cable runs of up to 50m can be done in RG6. If longer cable runs are required then you would change the cable size to RG11 as the losses on RG11 are much lower.

VHF and UHF losses are an average to cover all frequencies of the VHF and UHF range. This is a guide only. See pages 46-49 for cable losses for frequency ranges.

| RG6 Cable Losses | Frequency | 1m | 10m | 20m | 30m | 40m | 50m |
|-----------------------------------------------------------------------------------|-------------|---------|--------|--------|--------|--------|--------|
|  | VHF (0-12) | 0.053dB | 0.53dB | 1.06dB | 1.59dB | 2.12dB | 2.65dB |
| | UHF (21-69) | 0.21dB | 2.1dB | 4.2dB | 6.3dB | 8.4dB | 10.4dB |

| RG11 Cable Losses | Frequency | 1m | 10m | 20m | 30m | 40m | 50m |
|-------------------------------------------------------------------------------------|-------------|---------|--------|--------|--------|--------|--------|
|  | VHF (0-12) | 0.032dB | 0.32dB | 0.64dB | 0.96dB | 1.28dB | 1.6dB |
| | UHF (21-69) | 0.131dB | 1.31dB | 2.62dB | 3.93dB | 5.24dB | 6.55dB |



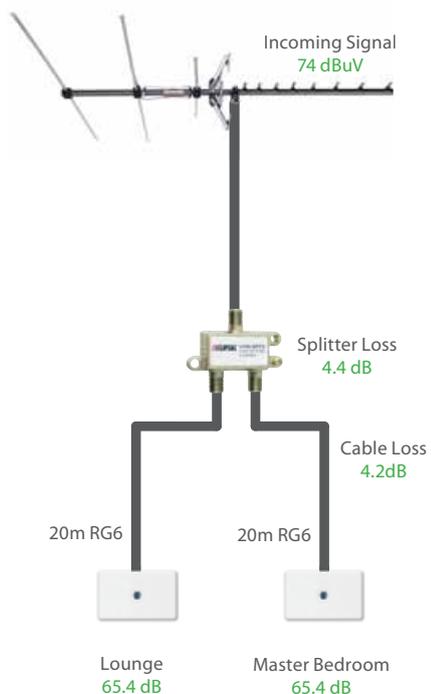
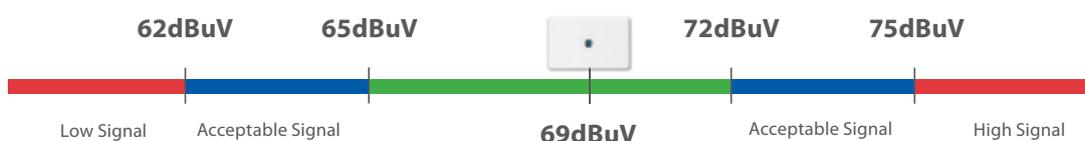


Signal Loss - Splitters

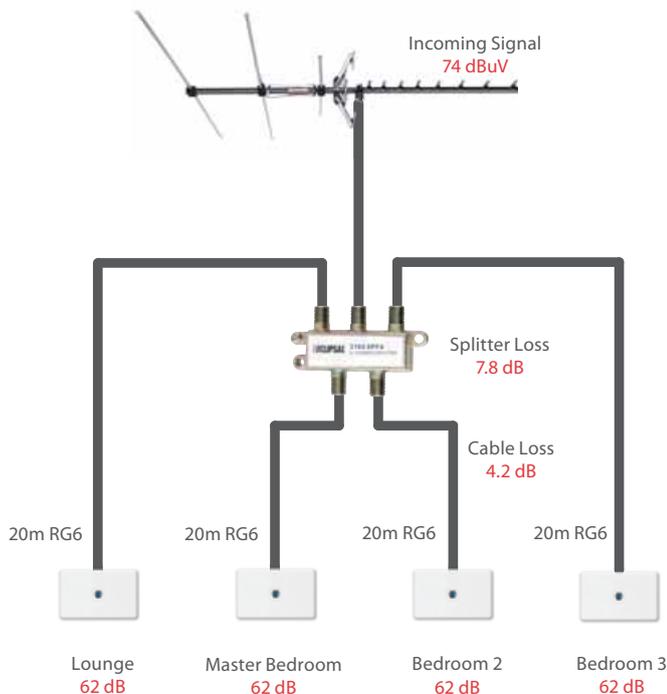
All passive splitters have losses. The signal strength is reduced every time you split the signal. The more ways the signal is split the higher the losses.

When installing or adding to an antenna, the losses for splitters must be taken into account as well as losses over cable.

The example below shows that changing a 2 way splitter for a 4 way splitter can change the signal strength at the outlet and result in poor picture. The example below shows the UHF losses only because these are the highest losses.



✓ Ideal



✗ Low

LOSSES FOR CLIPSAL TERRESTRIAL SPLITTER RANGE

| Frequency | 2 Way | 3 Way | 4 Way | 6 Way | 8 Way |
|----------------|--------|--------|--------|---------|---------|
| 46-470MHz VHF | <3.5dB | <6.1dB | <7.5dB | <10.2dB | <11.2dB |
| 471-860MHz UHF | <4.4dB | <6.3dB | <7.8dB | <10.7dB | <11.8dB |



HIGH PERFORMANCE

13 Element Combination **2ANCOM3**



| | VHF | UHF |
|-----------------------|-------------------|-------|
| Channels | 1-12 | 28-50 |
| Forward Gain | 8dB | 12dB |
| F/B Ratio | >12dB | >14dB |
| Connection | F-Type | |
| Balun | High Perform. PCB | |
| Reflectors | Snap out | |
| U bolt | Assembled | |
| Reception Area | Prime | |

13 Element Combination **2ANCOM3WB**



| | VHF | UHF |
|-----------------------|----------------|-------|
| Channels | 1-12 | 28-69 |
| Forward Gain | 8dB | 12dB |
| F/B Ratio | >12dB | >14dB |
| Connection | F-Type | |
| Balun | High Perf. PCB | |
| Reflectors | Snap out | |
| U bolt | Assembled | |
| Reception Area | Prime | |



17 Element Combination

2ANCOM4



| | VHF | UHF |
|-----------------------|-------------------|-------|
| Channels | 2-12 | 28-40 |
| Forward Gain | 9dB | 12dB |
| F/B Ratio | >12dB | >14dB |
| Connection | F-Type | |
| Balun | High Perform. PCB | |
| Reflectors | Snap out | |
| U bolt | Assembled | |
| Reception Area | Fringe | |

28 Element Combination

2ANCOM6



| | VHF | UHF |
|-----------------------|-------------------|-------|
| Channels | 2-12 | 28-40 |
| Forward Gain | 10dB | 15dB |
| F/B Ratio | >16dB | >16dB |
| Connection | F-Type | |
| Balun | High Perform. PCB | |
| Reflectors | Snap out | |
| U bolt | Assembled | |
| Reception Area | Outer Fringe | |



HIGH PERFORMANCE

Newcastle Antenna 2ANCOM2NEW



| | VHF | UHF |
|-----------------------|-------------------|-------|
| Channels | 3 & 5A | 28-57 |
| Forward Gain | 5dB | 13dB |
| F/B Ratio | >17dB | >20dB |
| Connection | F-Type | |
| Balun | High Perform. PCB | |
| Reflectors | Snap out | |
| U bolt | Assembled | |
| Reception Area | Prime/Fringe | |

Bunbury Antenna 2ANCOM2SW



| | VHF | UHF |
|-----------------------|-------------------|-------|
| Channels | 3 & 5A | 30-40 |
| Forward Gain | 5dB | 13dB |
| F/B Ratio | >11.5dB | >18dB |
| Connection | F-Type | |
| Balun | High Perform. PCB | |
| Reflectors | Snap out | |
| U bolt | Assembled | |
| Reception Area | Prime/ Fringe | |



14 Element Combination

2ANCOMD14



| | VHF | UHF |
|-----------------------|-------------------|-------|
| Channels | 6-12 | 28-50 |
| Forward Gain | 7.5dB | 12dB |
| F/B Ratio | >16dB | >16dB |
| Connection | F-Type | |
| Balun | High Perform. PCB | |
| Reflectors | Snap out | |
| U bolt | Assembled | |
| Reception Area | Prime/Fringe | |

14 Element Combination

2ANCOMD14WB



| | VHF | UHF |
|-----------------------|-------------------|-------|
| Channels | 6-12 | 28-69 |
| Forward Gain | 7.5dB | 12dB |
| F/B Ratio | >16dB | >16dB |
| Connection | F-Type | |
| Balun | High Perform. PCB | |
| Reflectors | Snap out | |
| U bolt | Assembled | |
| Reception Area | Prime/Fringe | |

24 Element Combination

2ANCOMD24



| | VHF | UHF |
|-----------------------|-------------------|-------|
| Channels | 1-12 | 28-69 |
| Forward Gain | 8dB | 15dB |
| F/B Ratio | >16dB | >16dB |
| Connection | F-Type | |
| Balun | High Perform. PCB | |
| Reflectors | Snap out | |
| U bolt | Assembled | |
| Reception Area | Fringe | |



CARAVAN ANTENNA

| | | |
|-----------------------------------------------------------------------------------|-----------------------|----------------------|
| Caravan Antenna | | 2ANCOMCAR |
|  | | VHF |
| | Channels | 0-12 |
| | Forward Gain | 4dB |
| | F/B Ratio | >10dB |
| | Connection | F-Type |
| | Balun | F-Type Ferrite Balun |
| | Reflectors | None |
| | U bolt | Assembled |
| | Reception Area | Prime |
| | | |
| | | 28-69 |
| | | 8dB |
| | | >14dB |



VHF Horizontal
UHF Vertical

VHF Horizontal
UHF Horizontal



VHF Vertical
UHF Horizontal



VHF Vertical
UHF Horizontal





13 Element Combination Economy

2ANCOMA13



| | VHF | UHF |
|-----------------------|---------------|-------|
| Channels | 2-12 | 28-36 |
| Forward Gain | 5dB | 7.5dB |
| F/B Ratio | >8dB | >20dB |
| Connection | F-Type | |
| Balun | Ferrite Balun | |
| Reflectors | None | |
| U bolt | Assembled | |
| Reception Area | Prime | |

17 Element Combination Economy

2ANCOMA17



| | VHF | UHF |
|-----------------------|---------------|-------|
| Channels | 2-12 | 28-36 |
| Forward Gain | 6dB | 10dB |
| F/B Ratio | >10dB | >20dB |
| Connection | F-Type | |
| Balun | Ferrite Balun | |
| Reflectors | Snap Out | |
| U bolt | Assembled | |
| Reception Area | Prime/Fringe | |

32 Element Combination Economy

2ANVULP2



| | VHF | UHF |
|-----------------------|--------------|-------|
| Channels | 6-12 | 28-69 |
| Forward Gain | 8dB | 11dB |
| F/B Ratio | >20dB | >20dB |
| Connection | F-Type | |
| Balun | None | |
| Reflectors | None | |
| U bolt | Assembled | |
| Reception Area | Prime/Fringe | |



HIGH PERFORMANCE CROSS POLARITY

13 Element Cross Polarity Combination

2ANUV13WB



| | VHF | UHF |
|-----------------------|-------------------|-------|
| Channels | 6-12 | 50-69 |
| Forward Gain | 7dB | 12dB |
| F/B Ratio | >12dB | >14dB |
| Connection | F-Type | |
| Balun | High Perform. PCB | |
| Reflectors | Snap Out | |
| U bolt | Assembled | |
| Reception Area | Prime/Fringe | |

14 Element Cross Polarity Combination

2ANUV14



| | VHF | UHF |
|-----------------------|-------------------|-------|
| Channels | 6-12 | 28-50 |
| Forward Gain | 7dB | 11dB |
| F/B Ratio | >12dB | >16dB |
| Connection | F-Type | |
| Balun | High Perform. PCB | |
| Reflectors | Snap Out | |
| U bolt | Assembled | |
| Reception Area | Prime/Fringe | |



All vertically mounted antennas will require a 2ANVB15 bracket. Refer to page 31.



16 Element Cross Polarity Combination

2ANUV16



| | VHF | UHF |
|-----------------------|-------------------|-------|
| Channels | 2-12 | 28-50 |
| Forward Gain | 7dB | 12dB |
| F/B Ratio | >12dB | >14dB |
| Connection | F-Type | |
| Balun | High Perform. PCB | |
| Reflectors | Snap Out | |
| U bolt | Assembled | |
| Reception Area | Prime/Fringe | |

19 Element Cross Polarity Combination

2ANUV19



| | VHF | UHF |
|-----------------------|-------------------|-------|
| Channels | 1-12 | 28-69 |
| Forward Gain | 7dB | 12dB |
| F/B Ratio | >12dB | >16dB |
| Connection | F-Type | |
| Balun | High Perform. PCB | |
| Reflectors | Snap Out | |
| U bolt | Assembled | |
| Reception Area | Prime/Fringe | |



UHF YAGI

| 12 Element Yagi | 2ANUY12WB | | | | | | | | | | | | | | | | | | |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----|-----------------|-------|---------------------|--------|------------------|-------|-------------------|--------|--------------|-------------------|-------------------|----------|---------------|----------------------|-----------------------|--------------|
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| | UHF | | | | | | | | | | | | | | | | | | |
| Channels | 28-69 | | | | | | | | | | | | | | | | | | |
| Forward Gain | 12.5dB | | | | | | | | | | | | | | | | | | |
| F/B Ratio | >14dB | | | | | | | | | | | | | | | | | | |
| Connection | F-Type | | | | | | | | | | | | | | | | | | |
| Balun | High Perform. PCB | | | | | | | | | | | | | | | | | | |
| Reflectors | Snap Out | | | | | | | | | | | | | | | | | | |
| U bolt | Elevat. Tilt Bracket | | | | | | | | | | | | | | | | | | |
| Reception Area | Prime/Fringe | | | | | | | | | | | | | | | | | | |

| 20 Element Yagi | 2ANUY20WB | | | | | | | | | | | | | | | | | | |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----|-----------------|-------|---------------------|--------|------------------|-------|-------------------|--------|--------------|-------------------|-------------------|----------|---------------|----------------------|-----------------------|---------------------|
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| | UHF | | | | | | | | | | | | | | | | | | |
| Channels | 28-69 | | | | | | | | | | | | | | | | | | |
| Forward Gain | 14.5dB | | | | | | | | | | | | | | | | | | |
| F/B Ratio | >20dB | | | | | | | | | | | | | | | | | | |
| Connection | F-Type | | | | | | | | | | | | | | | | | | |
| Balun | High Perform. PCB | | | | | | | | | | | | | | | | | | |
| Reflectors | Snap Out | | | | | | | | | | | | | | | | | | |
| U bolt | Elevat. Tilt Bracket | | | | | | | | | | | | | | | | | | |
| Reception Area | Fringe/Outer Fringe | | | | | | | | | | | | | | | | | | |

Tilt bracket supplied for UHF Antennas





10 Element Yagi Band 4

2ANUY10/4



| | UHF |
|-----------------------|----------------------|
| Channels | 28-35 |
| Forward Gain | 12.5dB |
| F/B Ratio | >16dB |
| Connection | F-Type |
| Balun | High Perform. PCB |
| Reflectors | Snap Out |
| U bolt | Elevat. Tilt Bracket |
| Reception Area | Prime |

18 Element Yagi Band 4

2ANUY18/4



| | UHF |
|-----------------------|----------------------|
| Channels | 28-35 |
| Forward Gain | 13.5dB |
| F/B Ratio | >20dB |
| Connection | F-Type |
| Balun | High Perform. PCB |
| Reflectors | Snap Out |
| U bolt | Elevat. Tilt Bracket |
| Reception Area | Fringe |

18 Element Yagi Band 5

2ANUY18/5



| | UHF |
|-----------------------|----------------------|
| Channels | 35-69 |
| Forward Gain | 14dB |
| F/B Ratio | >20dB |
| Connection | F-Type |
| Balun | High Perform. PCB |
| Reflectors | Snap Out |
| U bolt | Elevat. Tilt Bracket |
| Reception Area | Fringe/Outer Fringe |



UHF PHASED ARRAY

| 8 Element Phased Array | 2ANUPA1 | | | | | | | | | | | | | | | | | | |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----|-----------------|-------|---------------------|--------|------------------|-------|-------------------|--------|--------------|------|-------------------|-------------|---------------|-----------|-----------------------|-------|
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| | UHF | | | | | | | | | | | | | | | | | | |
| Channels | 21-69 | | | | | | | | | | | | | | | | | | |
| Forward Gain | 8-11dB | | | | | | | | | | | | | | | | | | |
| F/B Ratio | >15dB | | | | | | | | | | | | | | | | | | |
| Connection | F-Type | | | | | | | | | | | | | | | | | | |
| Balun | None | | | | | | | | | | | | | | | | | | |
| Reflectors | Rear X Type | | | | | | | | | | | | | | | | | | |
| U bolt | Assembled | | | | | | | | | | | | | | | | | | |
| Reception Area | Prime | | | | | | | | | | | | | | | | | | |

| 16 Element Phased Array | 2ANUPA2 | | | | | | | | | | | | | | | | | | |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----|-----------------|-------|---------------------|--------|------------------|-------|-------------------|--------|--------------|------|-------------------|-------------|---------------|-----------|-----------------------|--------------|
|  | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #f4a460;"> <th style="width: 60%;"></th> <th style="text-align: center;">UHF</th> </tr> </thead> <tbody> <tr> <td>Channels</td> <td style="text-align: center;">21-69</td> </tr> <tr> <td>Forward Gain</td> <td style="text-align: center;">13.5dB</td> </tr> <tr> <td>F/B Ratio</td> <td style="text-align: center;">>20dB</td> </tr> <tr> <td>Connection</td> <td style="text-align: center;">F-Type</td> </tr> <tr> <td>Balun</td> <td style="text-align: center;">None</td> </tr> <tr> <td>Reflectors</td> <td style="text-align: center;">Rear X Type</td> </tr> <tr> <td>U bolt</td> <td style="text-align: center;">Assembled</td> </tr> <tr> <td>Reception Area</td> <td style="text-align: center;">Outer Fringe</td> </tr> </tbody> </table> | | UHF | Channels | 21-69 | Forward Gain | 13.5dB | F/B Ratio | >20dB | Connection | F-Type | Balun | None | Reflectors | Rear X Type | U bolt | Assembled | Reception Area | Outer Fringe |
| | UHF | | | | | | | | | | | | | | | | | | |
| Channels | 21-69 | | | | | | | | | | | | | | | | | | |
| Forward Gain | 13.5dB | | | | | | | | | | | | | | | | | | |
| F/B Ratio | >20dB | | | | | | | | | | | | | | | | | | |
| Connection | F-Type | | | | | | | | | | | | | | | | | | |
| Balun | None | | | | | | | | | | | | | | | | | | |
| Reflectors | Rear X Type | | | | | | | | | | | | | | | | | | |
| U bolt | Assembled | | | | | | | | | | | | | | | | | | |
| Reception Area | Outer Fringe | | | | | | | | | | | | | | | | | | |



23 Element X Style

2ANUX23



| | UHF |
|-----------------------|----------------------|
| Channels | 21-69 |
| Forward Gain | 10dB |
| F/B Ratio | >17dB |
| Connection | F-Type |
| Balun | High Perform. PCB |
| Reflectors | Bolt on |
| U bolt | Elevat. Tilt Bracket |
| Reception Area | Prime |

43 Element X Style

2ANUX43



| | UHF |
|-----------------------|----------------------|
| Channels | 21-69 |
| Forward Gain | 13dB |
| F/B Ratio | >20dB |
| Connection | F-Type |
| Balun | High Perform. PCB |
| Reflectors | Bolt On |
| U bolt | Elevat. Tilt Bracket |
| Reception Area | Fringe |

91 Element X Style

2ANUX91

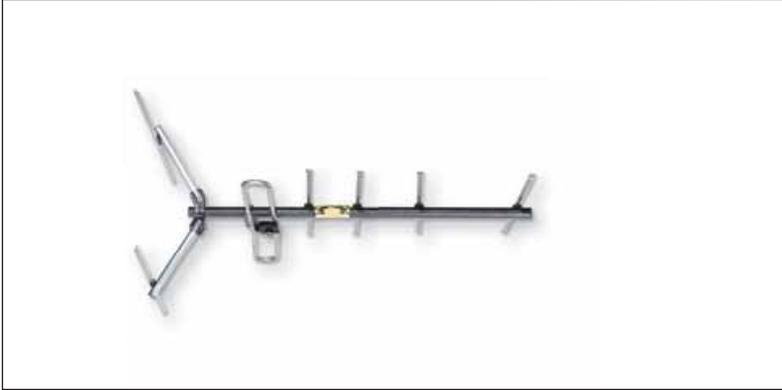


| | UHF |
|-----------------------|----------------------|
| Channels | 21-69 |
| Forward Gain | 15dB |
| F/B Ratio | >20dB |
| Connection | F-Type |
| Balun | High Perform. PCB |
| Reflectors | Bolt On |
| U bolt | Elevat. Tilt Bracket |
| Reception Area | Outer Fringe |



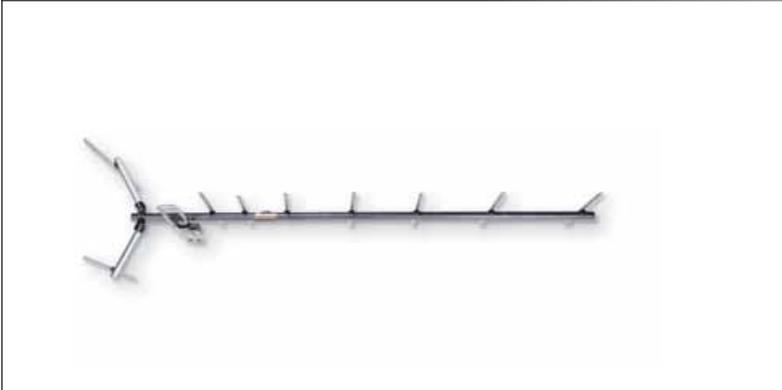
VHF YAGI

7 Element Yagi 2ANVY7



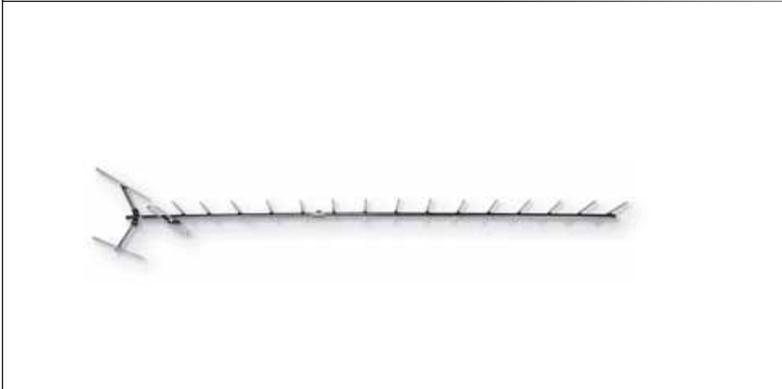
| | VHF |
|-----------------------|-------------------|
| Channels | 6-12 |
| Forward Gain | 8.8dB |
| F/B Ratio | >16dB |
| Connection | F-Type |
| Balun | High Perform. PCB |
| Reflectors | Snap Out |
| U bolt | Assembled |
| Reception Area | Prime |

10 Element Yagi 2ANVY10



| | VHF |
|-----------------------|-------------------|
| Channels | 6-12 |
| Forward Gain | 11-12dB |
| F/B Ratio | >16dB |
| Connection | F-Type |
| Balun | High Perform. PCB |
| Reflectors | Snap Out |
| U bolt | Assembled |
| Reception Area | Fringe |

18 Element Yagi 2ANVY18



| | VHF |
|-----------------------|-------------------|
| Channels | 6-12 |
| Forward Gain | 14dB |
| F/B Ratio | >20dB |
| Connection | F-Type |
| Balun | High Perform. PCB |
| Reflectors | Snap Out |
| U bolt | Assembled |
| Reception Area | Prime |



8 Element Log Periodic

2ANV2WB



| | VHF |
|-----------------------|-------------------|
| Channels | 0-12 |
| Forward Gain | 4-8dB |
| F/B Ratio | >12dB |
| Connection | F-Type |
| Balun | High Perform. PCB |
| Reflectors | None |
| U bolt | Assembled |
| Reception Area | Prime |

9 Element Log Periodic

2ANV3WB



| | VHF |
|-----------------------|-------------------|
| Channels | 0-12 |
| Forward Gain | 5-11dB |
| F/B Ratio | >15dB |
| Connection | F-Type |
| Balun | High Perform. PCB |
| Reflectors | None |
| U bolt | Assembled |
| Reception Area | Fringe |

12 Element Log Periodic

2ANV4WB



| | VHF |
|-----------------------|-------------------|
| Channels | 0-12 |
| Forward Gain | 6-12dB |
| F/B Ratio | >15dB |
| Connection | F-Type |
| Balun | High Perform. PCB |
| Reflectors | None |
| U bolt | Assembled |
| Reception Area | Outer Fringe |



VHF PHASED ARRAY

8 Element Phased Array

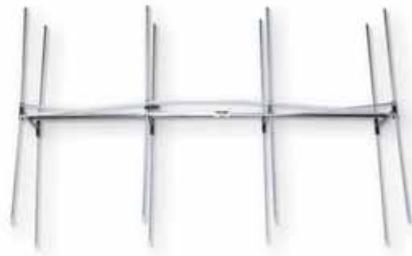
2ANVPA1



| | VHF |
|-----------------------|--------------|
| Channels | 6-12 |
| Forward Gain | 7-9.5dB |
| F/B Ratio | >16dB |
| Connection | F-Type |
| Balun | None |
| Reflectors | None |
| U bolt | Assembled |
| Reception Area | Prime/Fringe |

16 Element Phased Array

2ANVPA2



| | VHF |
|-----------------------|---------------------|
| Channels | 6-12 |
| Forward Gain | 12dB |
| F/B Ratio | >16dB |
| Connection | F-Type |
| Balun | None |
| Reflectors | None |
| U bolt | Assembled |
| Reception Area | Fringe/Outer Fringe |



3 Element FM 2ANFM3



| | VHF |
|-----------------------|-------------------|
| Channels | 88-108Mhz |
| Forward Gain | 5dB |
| F/B Ratio | >15dB |
| Connection | F-Type |
| Balun | High Perform. PCB |
| Reflectors | None |
| U bolt | Assembled |
| Reception Area | Prime |

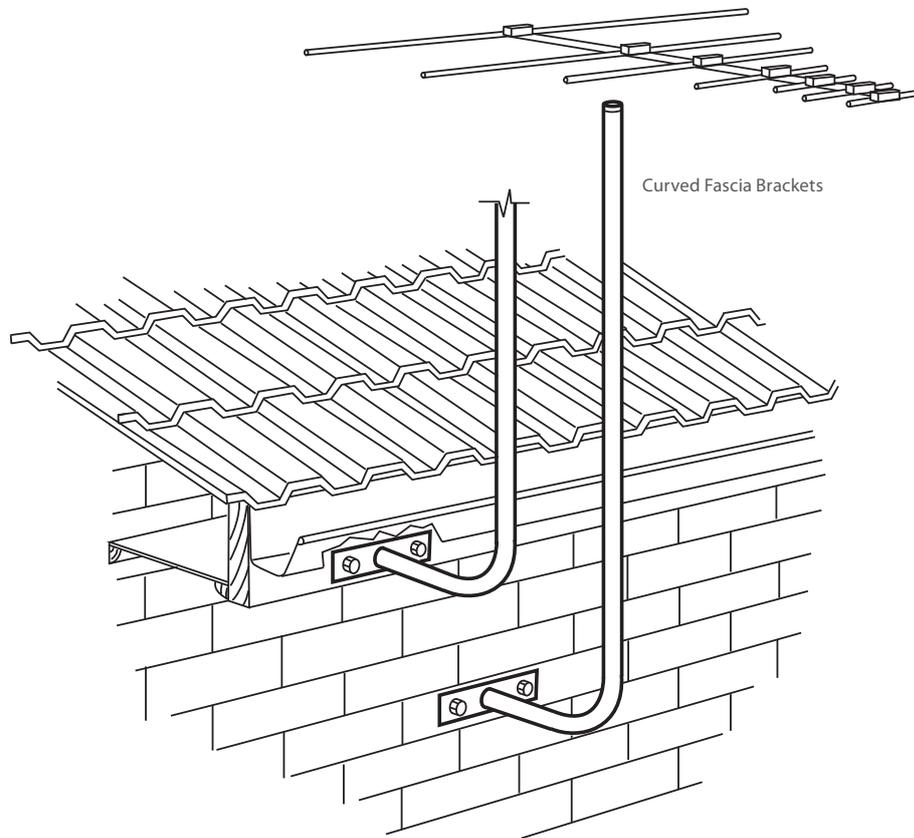
8 Element FM 2ANFM8



| | VHF |
|-----------------------|---------------------|
| Channels | 88-108Mhz |
| Forward Gain | 10dB |
| F/B Ratio | >17dB |
| Connection | F-Type |
| Balun | High Perform. PCB |
| Reflectors | None |
| U bolt | Assembled |
| Reception Area | Fringe/Outer Fringe |



Curved Fascia Brackets



1.2m used for smaller antennas - **2ANCFB12**

1.5m used for small to medium antennas - **2ANCFB15**

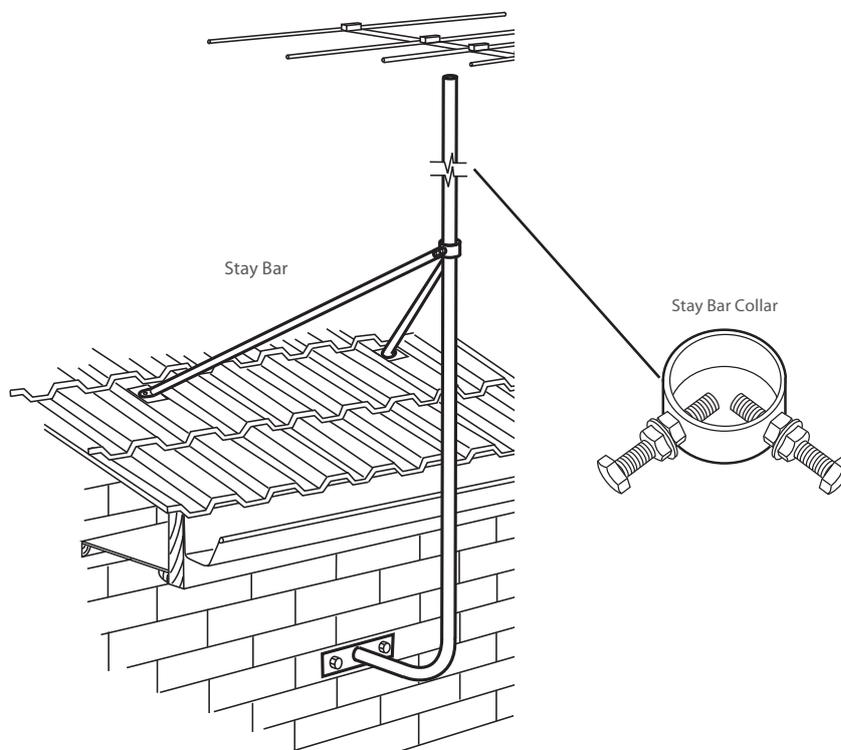
1.8m used for small to medium antennas - **2ANCFB18**

1.5m used for larger antennas - **2ANCFBHD**

- Mounted to the fascia or wall
- Generally used when height of the antenna is not a issue
- Used for small to medium sized antennas
- Stay bars can be used to support the antenna if required.



Stay Bars



Stay bar set of 2 x 1200mm (4 foot) - **2ANSB4**

Stay bar set of 2 x 1800mm (6 foot) - **2ANSB6**

Stay bar set of 2 x 2400mm (8 foot) - **2ANSB8**

Stay bar collar - **2ANSBC**

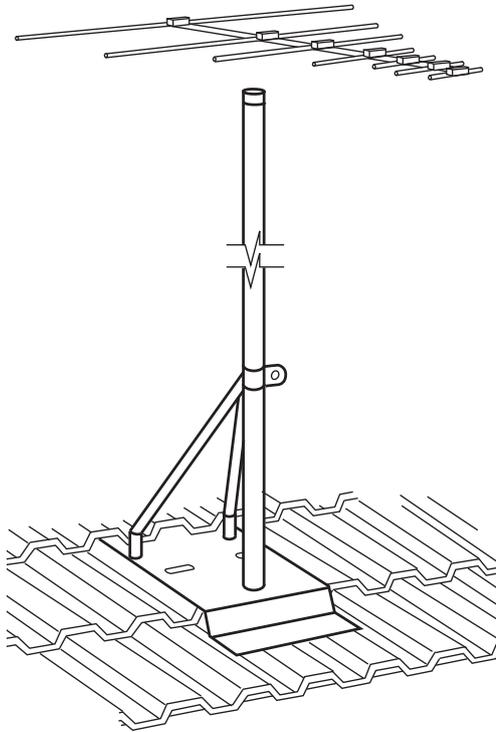
All stay bars require a stay bar collar for mounting.
One end of the stay bar is fixed to the stay bar collar.
The other end of the stay bar is fixed to the roof.
(Drill through tile to screw to baton for tiled roof)

Used to support

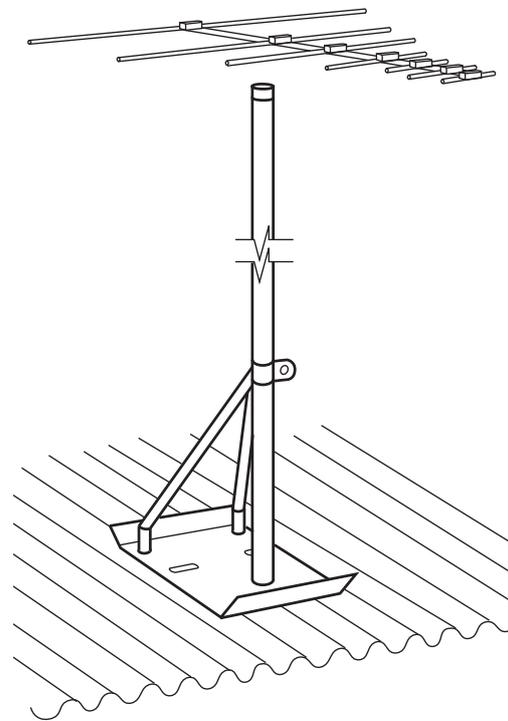
- Antenna mounts
- Curved fascia brackets
- Tripod roof mounts
- Rafter mounts
- Masts.



Tripod Roof Mounts



Tripod Roof Mount - TILE - **2ANTRPT**



Tripod Roof Mount - METAL - **2ANTRPM**

The easiest way to mount an antenna

2ANTRPT

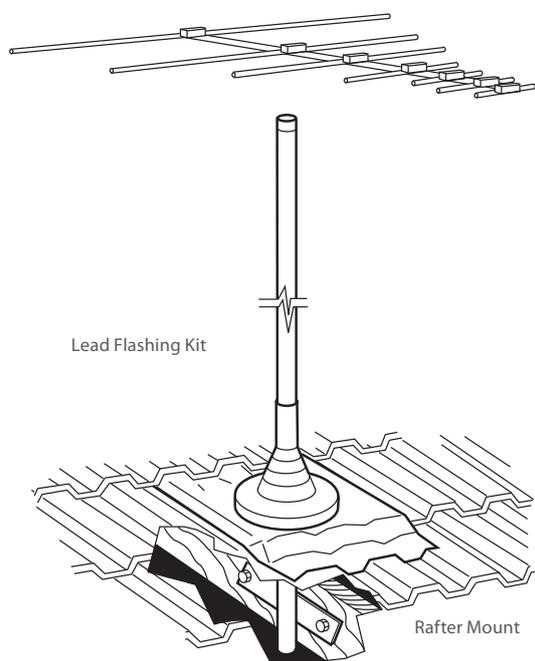
- Drill through tile to baton for fixing with appropriate anchors
- Bend the supports to adjust for any roof angle

2ANTRPM

- Use existing roof screws to fix mount in place
- Bend the supports to adjust for any roof angle



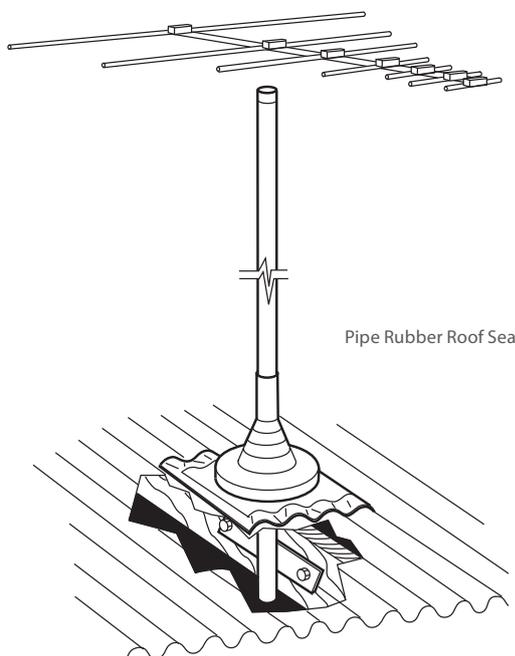
Rafter Mounts



Lead Flashing Kit

Rafter Mount

Rafter Mount - **2ANRM25** - **2ANRM32**
Roof Seal - Metal - **2ANPFK**



Pipe Rubber Roof Seal

Lead Flashing Kit - **2ANLFK**

Rafter Mount 1.8m x 25mm - **2ANRM25**

Rafter Mount 1.8m x 32mm - **2ANRM32**

Lead Flashing Kit (tiled roofs) - **2ANLFK**

Pipe Rubber Roof Seal (metal Roofs) - **2ANPFK**

Smaller antennas use the **2ANRM25**

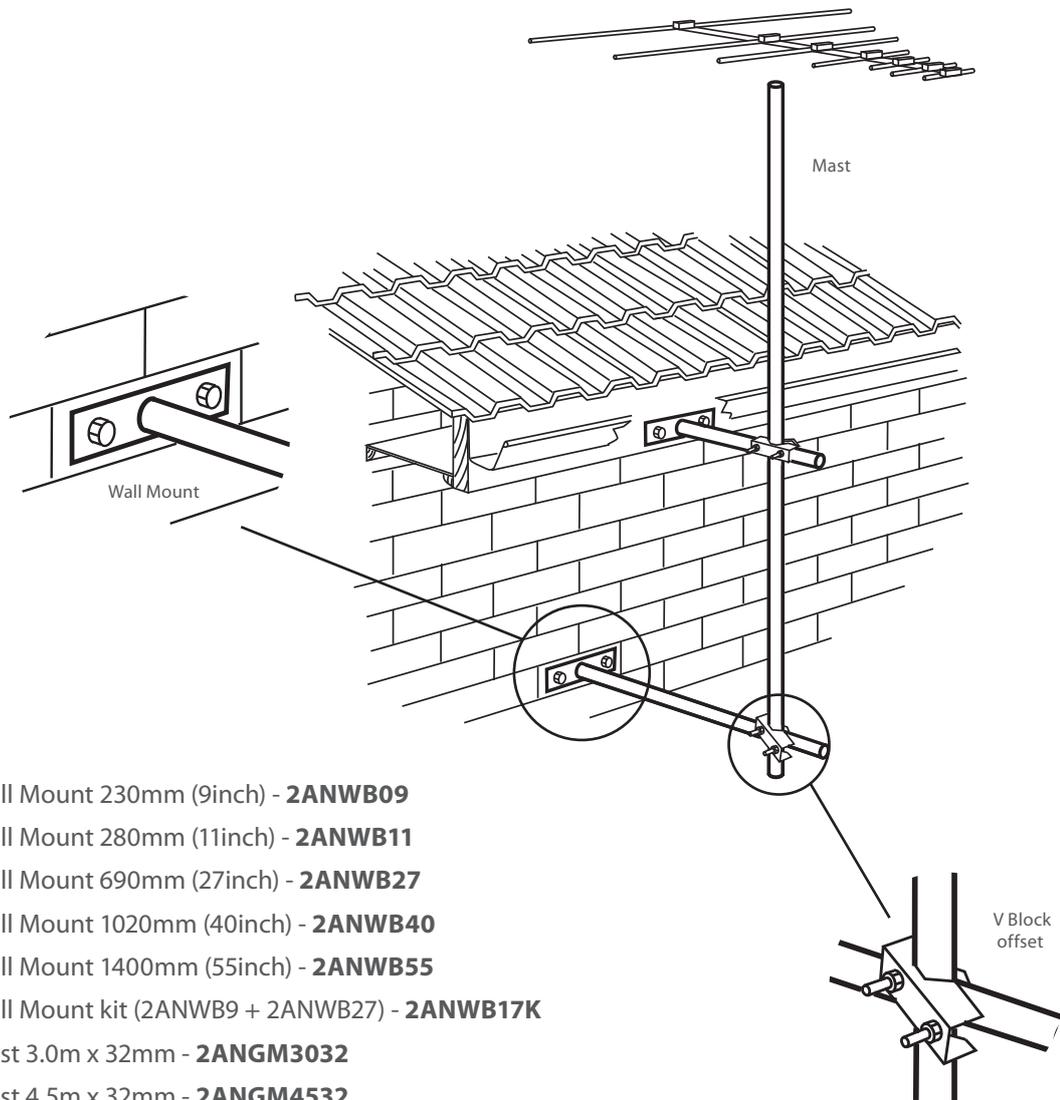
Medium to larger antennas use the **2ANRM32**

Tiled roof must use a **2ANLFK**

Metal roof use the **2ANPFK**



Wall Mounts/Masts

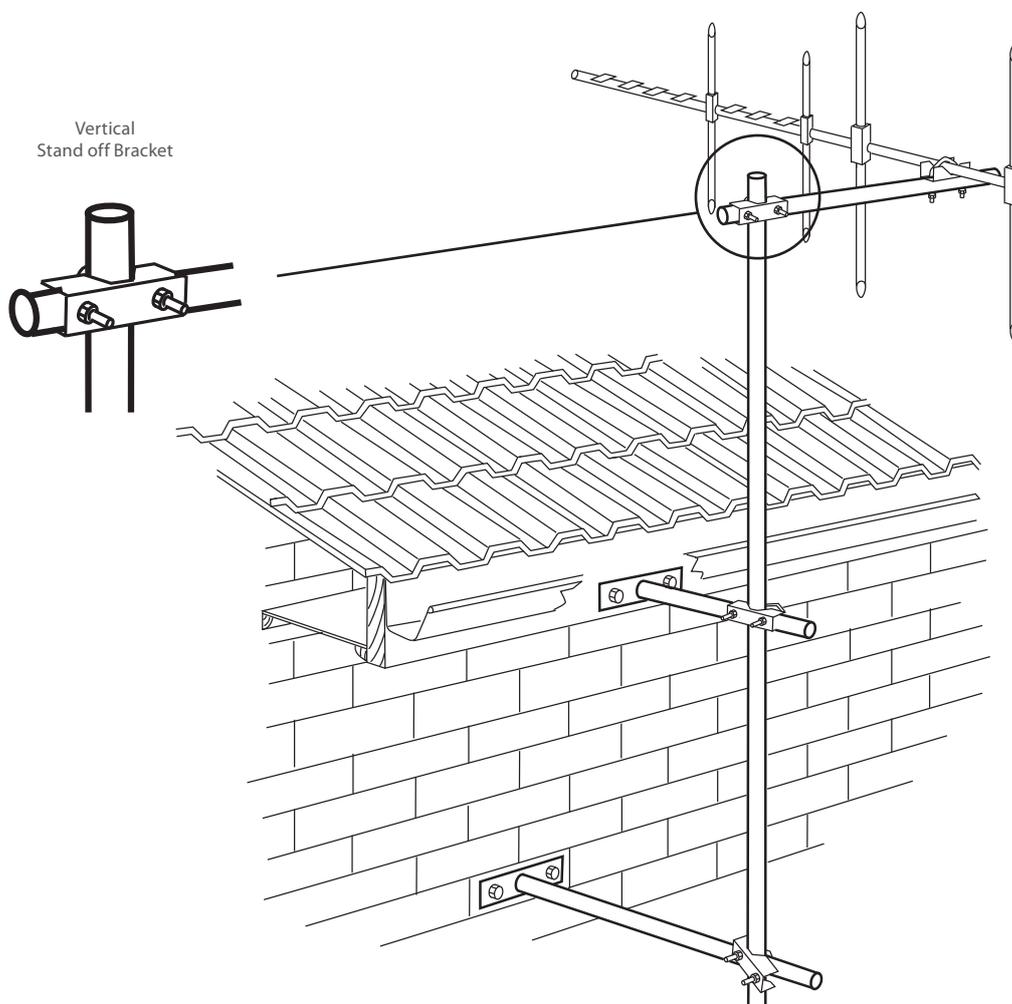


- Wall Mount 230mm (9inch) - **2ANWB09**
- Wall Mount 280mm (11inch) - **2ANWB11**
- Wall Mount 690mm (27inch) - **2ANWB27**
- Wall Mount 1020mm (40inch) - **2ANWB40**
- Wall Mount 1400mm (55inch) - **2ANWB55**
- Wall Mount kit (2ANWB9 + 2ANWB27) - **2ANWB17K**
- Mast 3.0m x 32mm - **2ANGM3032**
- Mast 4.5m x 32mm - **2ANGM4532**
- Mast 4.5m x 38mm - **2ANGM4538**
- V Block offset (used to mount horizontal and vertical poles together) **2ANVBO**
- Bolt for V Block - **2ANVB**

Used to gain extra height required for better TV reception
Mast extensions available for extra height if required.



Vertical Stand Off Bracket



Vertical Stand off Bracket 375mm (15 inch) - **2ANVB15**

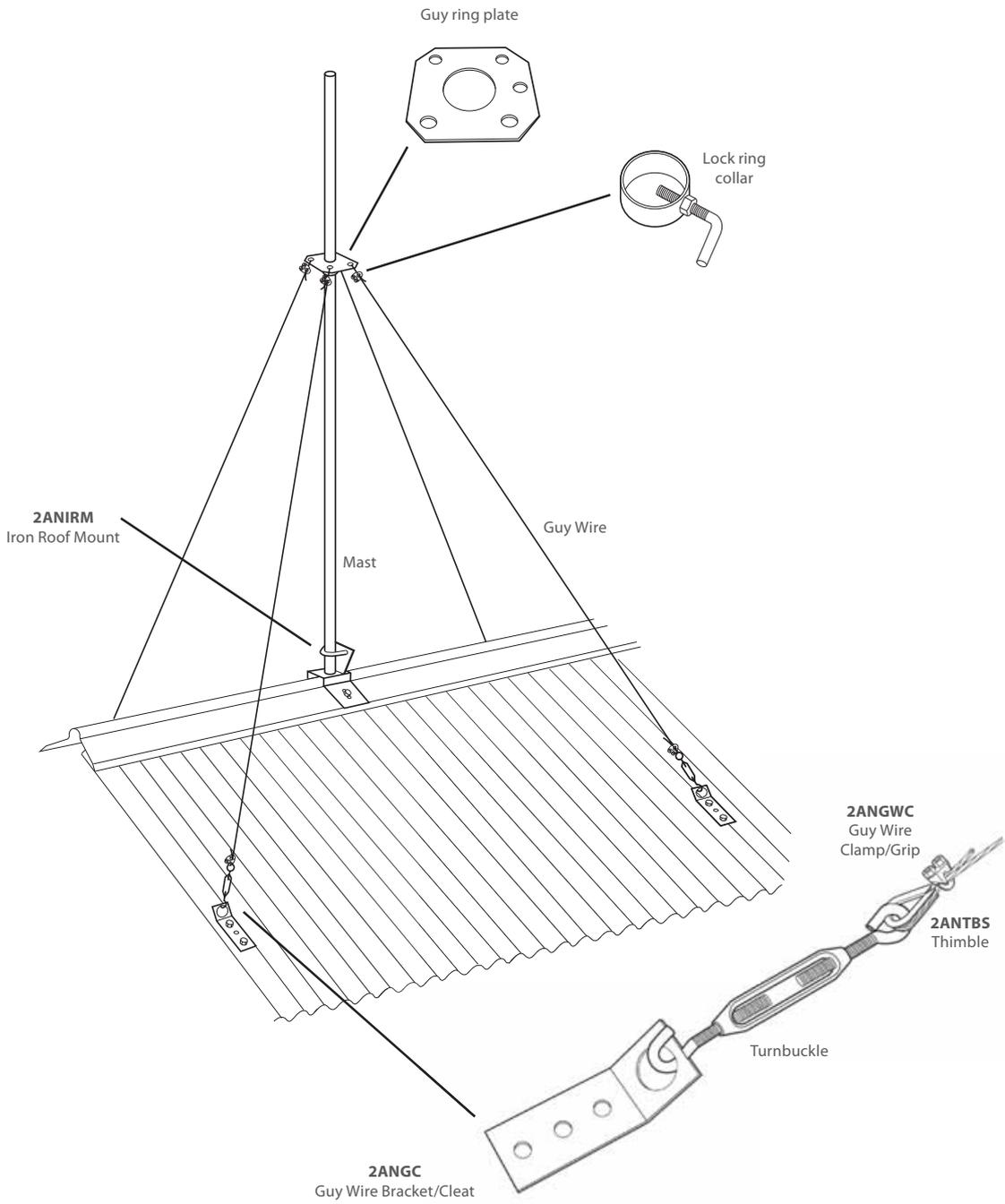
Used to mount an antenna vertically
All antennas mounted vertically need a stand off bracket
If a stand off bracket is not used signal problems may be encountered.



All vertically mounted antennas will require a 2ANVB15 bracket.



Guy Wire Fixing





Guy Wire Fixing

Guy Wire 180m reel - **2ANGWR**

Guy Wire Spool (Coiled) - **2ANGW**

Guy ring plate x 32mm (suites 32mm mast) - **2ANGR32**

Guy ring plate x 38mm (suites 38mm mast) - **2ANGR38**

Lock ring collar x 32mm (suites 32mm mast) - **2ANLR32**

Lock ring collar x 38mm (suites 38mm mast) - **2ANLR38**

Guy Wire Cleat - **2ANGC**

Guy Wire Clamp - **2ANGWC**

Turnbuckle x 6mm (1/4 inch) - **2ANTBK6**

Turnbuckle x 8mm (5/16 inch) - **2ANTBK8**

Thimble - **2ANTBS**

Mast Extension

Mount fixing points on roof 3m from base of mast

Mount guy ring 3m above the base of the mast for 4.5m masts

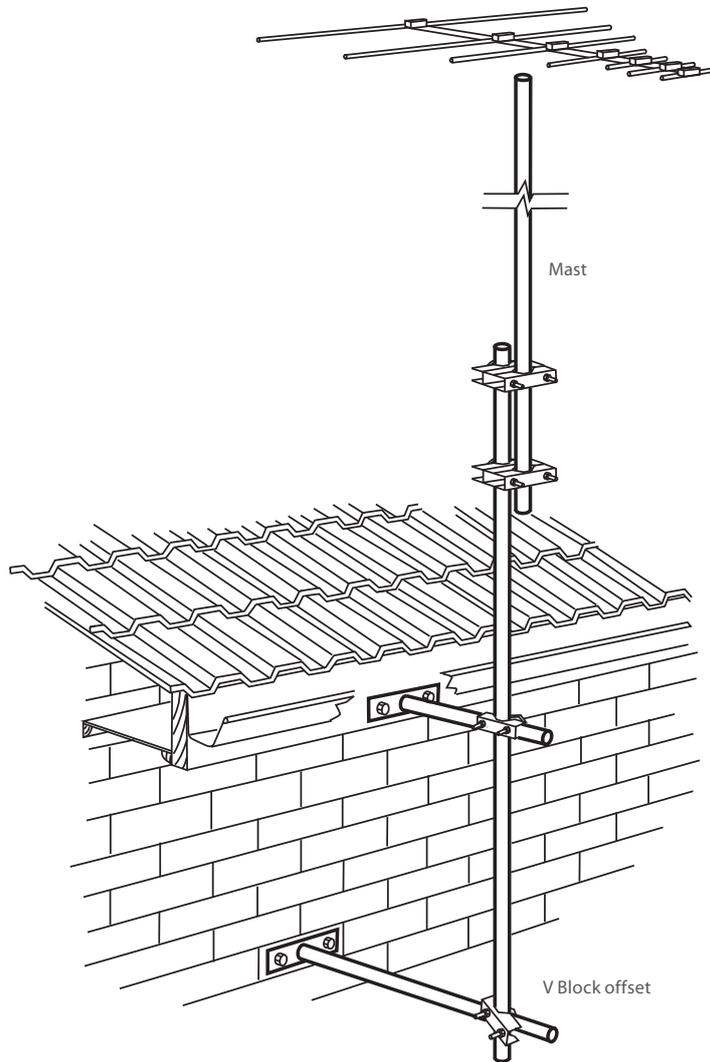
Mount guy ring 2.5m above the base of the mast for 3m masts

Use thimbles to stop the guy wire rubbing against the mount

Use turnbuckles to tighten the guy wire.



Mast Extensions



Mast Extension - **2ANME**

Mast Extension Kit - **2ANMEK**

Mast 3.0m x 32mm - **2ANGM3032**

Mast 4.5m x 32mm - **2ANGM4532**

Mast 4.5m x 38mm - **2ANGM4538**

V Block offset (used to mount horizontal and vertical poles together) - **2ANVBO**

Wall Mounts/Masts

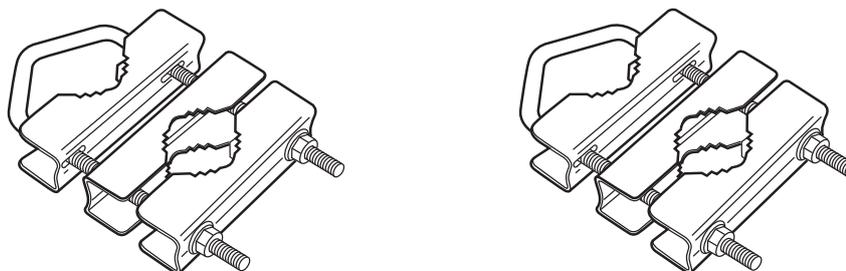
Used to get extra height required for better TV reception

May require some form of support

- Guy wire support
- Stay bar support



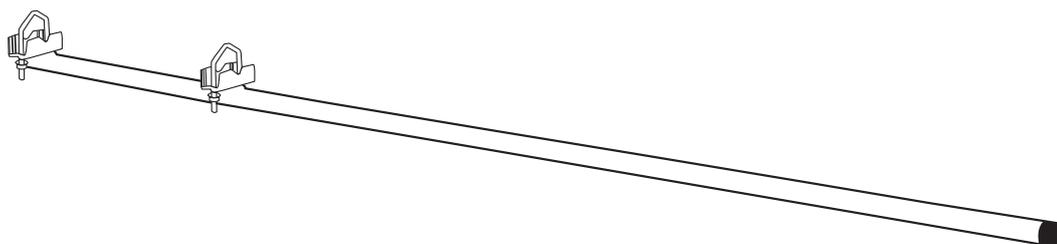
Mast Extension Kit



V Block clamps two poles together such as a mast to a wall/eave bracket.

Mast Extension Kit - **2ANMEK**

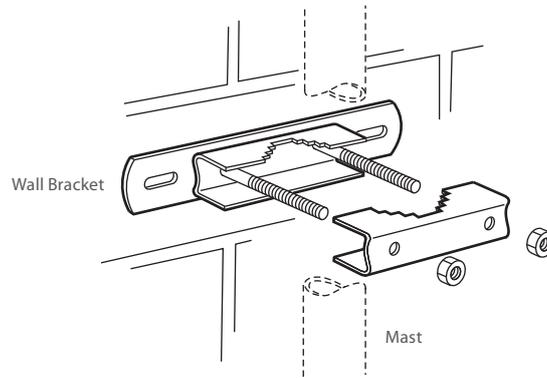
Mast Extension



Mast Extension- **2ANME**

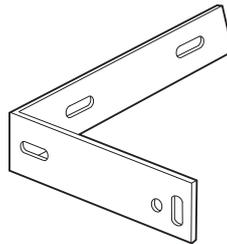


Flat Wall Mount



Flat Wall Mount Bracket - **2ANFWM**

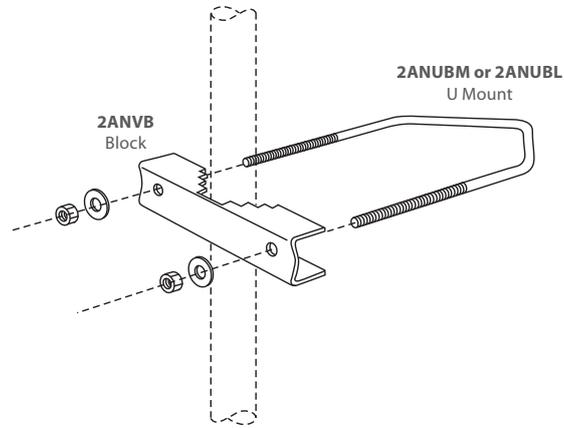
Metal Fascia



Metal Fascia - **2ANMFB**



V Block



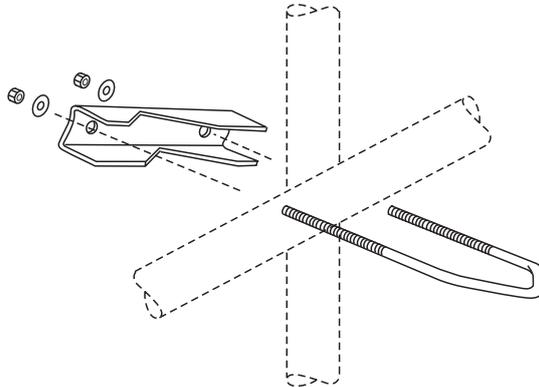
V Block clamps at 90 degrees to the mast. This is ideal for horizontal mounting of antennas.

V Block - **2ANVB**

U Bolt 5 inches - **2ANUBM**

U Bolt 7 inches - **2ANUBL**

V Offset Block



V Offset Block - **2ANVBO**

U Bolt 5 inches - **2ANUBM**

U Bolt 7 inches - **2ANUBL**



2 Way Terrestrial Splitter 5-1000MHz 3105SPF2



Not suitable for Satellite Television Transmission

| | |
|------------------------------|--------|
| Losses VHF 46-470MHz | <3.5dB |
| Losses UHF 471-860MHz | <4.4dB |
| Power Pass | 1 port |
| Connection Type | F-Type |
| Mounting Holes | 2 |
| Earthing Connection | 1 |

3 Way Terrestrial Splitter 5-1000MHz 3105SPF3



Not suitable for Satellite Television Transmission

| | |
|------------------------------|--------|
| Losses VHF 46-470MHz | <6.1dB |
| Losses UHF 471-860MHz | <6.3dB |
| Power Pass | 1 port |
| Connection Type | F-Type |
| Mounting Holes | 2 |
| Earthing Connection | 1 |

4 Way Terrestrial Splitter 5-1000MHz 3105SPF4



Not suitable for Satellite Television Transmission

| | |
|------------------------------|--------|
| Losses VHF 46-470MHz | <7.5dB |
| Losses UHF 471-860MHz | <7.8dB |
| Power Pass | 1 port |
| Connection Type | F-Type |
| Mounting Holes | 2 |
| Earthing Connection | 1 |



6 Way Terrestrial Splitter 5-1000MHz 3105SPF6

Power Pass



Not suitable for Satellite Television Transmission

| | |
|------------------------------|---------|
| Losses VHF 46-470MHz | <10.2dB |
| Losses UHF 471-860MHz | <10.7dB |
| Power Pass | 1 port |
| Connection Type | F-Type |
| Mounting Holes | 2 |
| Earthing Connection | 1 |

8 Way Terrestrial Splitter 5-1000MHz 3105SPF8

Power Pass



Not suitable for Satellite Television Transmission

| | |
|------------------------------|---------|
| Losses VHF 46-470MHz | <11.2dB |
| Losses UHF 471-860MHz | <11.8dB |
| Power Pass | 1 port |
| Connection Type | F-Type |
| Mounting Holes | 2 |
| Earthing Connection | 1 |

70dB



Only UHF losses are shown for illustration purposes

11.8dB Splitter Loss

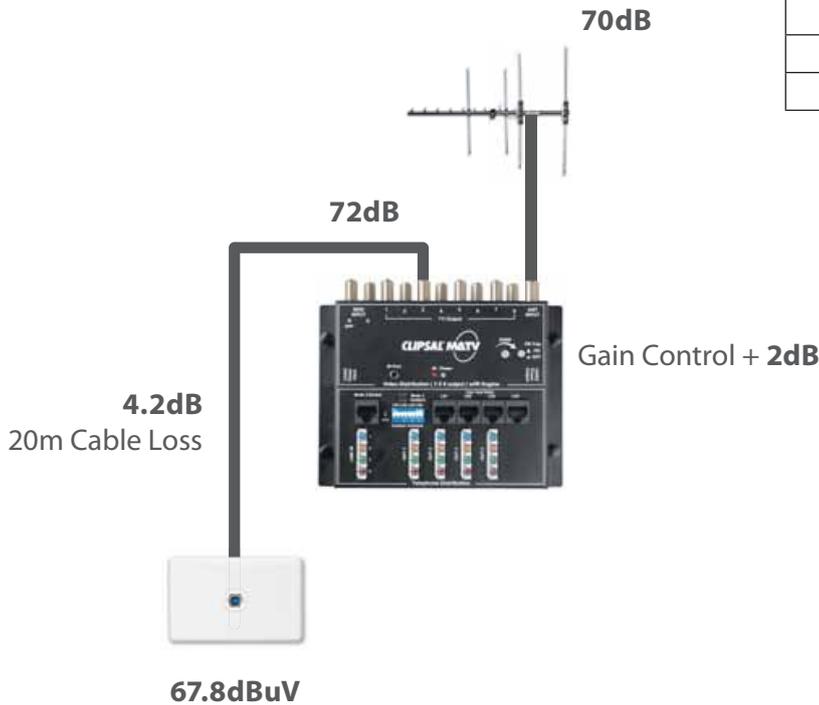
4.2dB 20m Cable Loss

54dBuV



| | | | | | | | | | | | | | | | | | |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------------------|---------------------|---|--------------------|----------------------------------------|---------------------|-------|------------------------|---------------------------------------------------------------|------------------------------|------------------------------------------------------|---------------------|----|--------------------------|----|
| Powered Splitter 37-860MHz | 3105VDU24T | | | | | | | | | | | | | | | | |
|  | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Frequency Range</td> <td>37-860Mhz All Free to Air Channels</td> </tr> <tr> <td style="text-align: center;">Output Ports</td> <td>4</td> </tr> <tr> <td style="text-align: center;">Input Ports</td> <td>1x Antenna Input 1x Modulated Input</td> </tr> <tr> <td style="text-align: center;">Power Supply</td> <td>12VDC</td> </tr> <tr> <td style="text-align: center;">3 Power Options</td> <td>·Local ·Remote via Modulator ·Remote via Power Injector</td> </tr> <tr> <td style="text-align: center;">Variable Gain Control</td> <td>Antenna Input only +3dB Gain -15dB Attenuation</td> </tr> <tr> <td style="text-align: center;">IR Pass Back</td> <td>No</td> </tr> <tr> <td style="text-align: center;">IR Expansion Port</td> <td>No</td> </tr> </table> | Frequency Range | 37-860Mhz All Free to Air Channels | Output Ports | 4 | Input Ports | 1x Antenna Input 1x Modulated Input | Power Supply | 12VDC | 3 Power Options | ·Local ·Remote via Modulator ·Remote via Power Injector | Variable Gain Control | Antenna Input only +3dB Gain -15dB Attenuation | IR Pass Back | No | IR Expansion Port | No |
| Frequency Range | 37-860Mhz All Free to Air Channels | | | | | | | | | | | | | | | | |
| Output Ports | 4 | | | | | | | | | | | | | | | | |
| Input Ports | 1x Antenna Input 1x Modulated Input | | | | | | | | | | | | | | | | |
| Power Supply | 12VDC | | | | | | | | | | | | | | | | |
| 3 Power Options | ·Local ·Remote via Modulator ·Remote via Power Injector | | | | | | | | | | | | | | | | |
| Variable Gain Control | Antenna Input only +3dB Gain -15dB Attenuation | | | | | | | | | | | | | | | | |
| IR Pass Back | No | | | | | | | | | | | | | | | | |
| IR Expansion Port | No | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------------------|---------------------|---|--------------------|-----------------------------------------|---------------------|-------|------------------------|---------------------------------------------------------------|------------------------------|------------------------------------------------------|---------------------|-----|--------------------------|-----|
| Powered Splitter 37-860MHz | 3105VDU38IRT | | | | | | | | | | | | | | | | |
|  | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Frequency Range</td> <td>37-860Mhz All Free to Air Channels</td> </tr> <tr> <td style="text-align: center;">Output Ports</td> <td>8</td> </tr> <tr> <td style="text-align: center;">Input Ports</td> <td>1x Antenna Input 2x Modulated Inputs</td> </tr> <tr> <td style="text-align: center;">Power Supply</td> <td>12VDC</td> </tr> <tr> <td style="text-align: center;">3 Power Options</td> <td>·Local ·Remote via Modulator ·Remote via Power Injector</td> </tr> <tr> <td style="text-align: center;">Variable Gain Control</td> <td>Antenna Input only +3dB Gain -15dB Attenuation</td> </tr> <tr> <td style="text-align: center;">IR Pass Back</td> <td>Yes</td> </tr> <tr> <td style="text-align: center;">IR Expansion Port</td> <td>Yes</td> </tr> </table> | Frequency Range | 37-860Mhz All Free to Air Channels | Output Ports | 8 | Input Ports | 1x Antenna Input 2x Modulated Inputs | Power Supply | 12VDC | 3 Power Options | ·Local ·Remote via Modulator ·Remote via Power Injector | Variable Gain Control | Antenna Input only +3dB Gain -15dB Attenuation | IR Pass Back | Yes | IR Expansion Port | Yes |
| Frequency Range | 37-860Mhz All Free to Air Channels | | | | | | | | | | | | | | | | |
| Output Ports | 8 | | | | | | | | | | | | | | | | |
| Input Ports | 1x Antenna Input 2x Modulated Inputs | | | | | | | | | | | | | | | | |
| Power Supply | 12VDC | | | | | | | | | | | | | | | | |
| 3 Power Options | ·Local ·Remote via Modulator ·Remote via Power Injector | | | | | | | | | | | | | | | | |
| Variable Gain Control | Antenna Input only +3dB Gain -15dB Attenuation | | | | | | | | | | | | | | | | |
| IR Pass Back | Yes | | | | | | | | | | | | | | | | |
| IR Expansion Port | Yes | | | | | | | | | | | | | | | | |





6 Way Powered Splitter 37-860MHz

8072/6VHP



| | |
|------------------------------|---------------------------------------------------------------|
| Frequency Range | 37-860Mhz All Free to Air Channels |
| Output Ports | 6 |
| Input Ports | 1x Antenna Input 1x Modulated Input |
| Power Supply | 12VDC |
| 3 Power Options | -Local -Remote via Modulator -Remote via Power Injector |
| Variable Gain Control | Antenna Input only +3dB Gain -15dB Attenuation |
| IR Pass Back | No |
| IR Expansion Port | No |

8 Way Powered Splitter 37-860MHz

8073/8VHPIR



| | |
|------------------------------|---------------------------------------------------------------|
| Frequency Range | 37-860Mhz All Free to Air Channels |
| Output Ports | 8 |
| Input Ports | 1x Antenna Input 2x Modulated Inputs |
| Power Supply | 12VDC |
| 3 Power Options | -Local -Remote via Modulator -Remote via Power Injector |
| Variable Gain Control | Antenna Input only +3dB Gain -15dB Attenuation |
| IR Pass Back | Yes |
| IR Expansion Port | Yes |

70dB

72dB

Gain Control + 2dB

4.2dB

20m Cable Loss



67.8dBuV



2 Way Satellite Splitter 5-2400MHz 3105SPFP2



| | |
|------------------------|-----------|
| Losses 40-1000MHz | <4.6dB |
| Losses 1000-1750MHz | <5.3dB |
| Losses 1751-2050MHz | <6.3dB |
| Power Pass | All ports |
| Connection Type | F-Type |
| Mounting Holes | 2 |
| Earthing Connection | 1 |
| Approval Number | |
| Foxtel | F10082/C |
| Austar | A01564 |
| Select TV | N/A |

3 Way Satellite Splitter 5-2400MHz 3105SPFP3



| | |
|------------------------|-----------|
| Losses 40-1000MHz | <7.5dB |
| Losses 1000-1750MHz | <9dB |
| Losses 1751-2050MHz | <11.5dB |
| Power Pass | All ports |
| Connection Type | F-Type |
| Mounting Holes | 2 |
| Earthing Connection | 1 |
| Approval Number | |
| Foxtel | F10082/C |
| Austar | N/A |
| Select TV | N/A |

4 Way Satellite Splitter 5-2400MHz 3105SPFP4



| | |
|------------------------|-----------|
| Losses 40-1000MHz | <8.5dB |
| Losses 1000-1750MHz | <10.5dB |
| Losses 1751-2050MHz | <11.5dB |
| Power Pass | All ports |
| Connection Type | F-Type |
| Mounting Holes | 2 |
| Earthing Connection | 1 |
| Approval Number | |
| Foxtel | F10082/C |
| Austar | A01592 |
| Select TV | N/A |



Indoor Diplexer 3105DPUV



Outdoor Diplexer 3105DPOUV



Diplexers combine TV signals from 2 antennas through 1 coax cable.



| 1 Way Drop Tap 5-2400MHz | | 3105T1/XX | | | | |
|--------------------------|---------------------------------|------------------|------------------|------------------|------------------|--|
| | | 3105T1/10 | 3105T1/12 | 3105T1/15 | 3105T1/20 | |
| | Tap Loss | 10dB | 12dB | 15dB | 20dB | |
| | Through Loss 5-950MHz | <2dB | <1.9dB | <1.3dB | <0.9dB | |
| | Through Loss 951-2400MHz | <3dB | <2.7dB | <2.2dB | <1.7dB | |
| | Power Pass | 1 Port | 1 Port | 1 Port | 1 Port | |
| | Connection Type | F-Type | F-Type | F-Type | F-Type | |
| | Mounting Holes | 2 | 2 | 2 | 2 | |
| | Earthing Connection | 1 | 1 | 1 | 1 | |
| | Approval Number | | | | | |
| | Foxtel | F10082-85/C | F10082-85/C | F10082-85/C | F10082-85/C | |
| Austar | A01536 | A01537 | A01538 | A01539 | | |
| Select TV | Yes | Yes | Yes | Yes | | |

| 2 Way Drop Tap 5-2400MHz | | 3105T2/XX | | | | |
|--------------------------|---------------------------------|------------------|------------------|------------------|------------------|--|
| | | 3105T2/10 | 3105T2/12 | 3105T2/15 | 3105T2/20 | |
| | Tap Loss | 10dB | 12dB | 15dB | 20dB | |
| | Through Loss 5-950MHz | <2dB | <1.9dB | <1.5dB | <1dB | |
| | Through Loss 951-2400MHz | <3dB | <2.7dB | <2.3dB | <1.9dB | |
| | Power Pass | 1 Port | 1 Port | 1 Port | 1 Port | |
| | Connection Type | F-Type | F-Type | F-Type | F-Type | |
| | Mounting Holes | 2 | 2 | 2 | 2 | |
| | Earthing Connection | 1 | 1 | 1 | 1 | |
| | Approval Number | | | | | |
| | Foxtel | F10082-85/C | F10082-85/C | F10082-85/C | F10082-85/C | |
| Austar | N/A | A01541 | A01542 | A01543 | | |
| Select TV | Yes | Yes | Yes | Yes | | |

| 4 Way Drop Tap 5-2400MHz | | 3105T4/XX | | | | |
|--------------------------|---------------------------------|------------------|------------------|------------------|------------------|--|
| | | 3105T4/10 | 3105T4/12 | 3105T4/15 | 3105T4/20 | |
| | Tap Loss | 10dB | 12dB | 15dB | 20dB | |
| | Through Loss 5-950MHz | <6.5dB | <4dB | <3dB | <1.8dB | |
| | Through Loss 951-2400MHz | <9dB | <4.5dB | <4.1dB | <1.1dB | |
| | Power Pass | 1 Port | 1 Port | 1 Port | 1 Port | |
| | Connection Type | F-Type | F-Type | F-Type | F-Type | |
| | Mounting Holes | 2 | 2 | 2 | 2 | |
| | Earthing Connection | 1 | 1 | 1 | 1 | |
| | Approval Number | | | | | |
| | Foxtel | F10082-85/C | F10082-85/C | F10082-85/C | F10082-85/C | |
| Austar | A01544 | N/A | A01545 | A01546 | | |
| Select TV | Yes | Yes | Yes | Yes | | |



75 Ohm Terminator

3105FTER

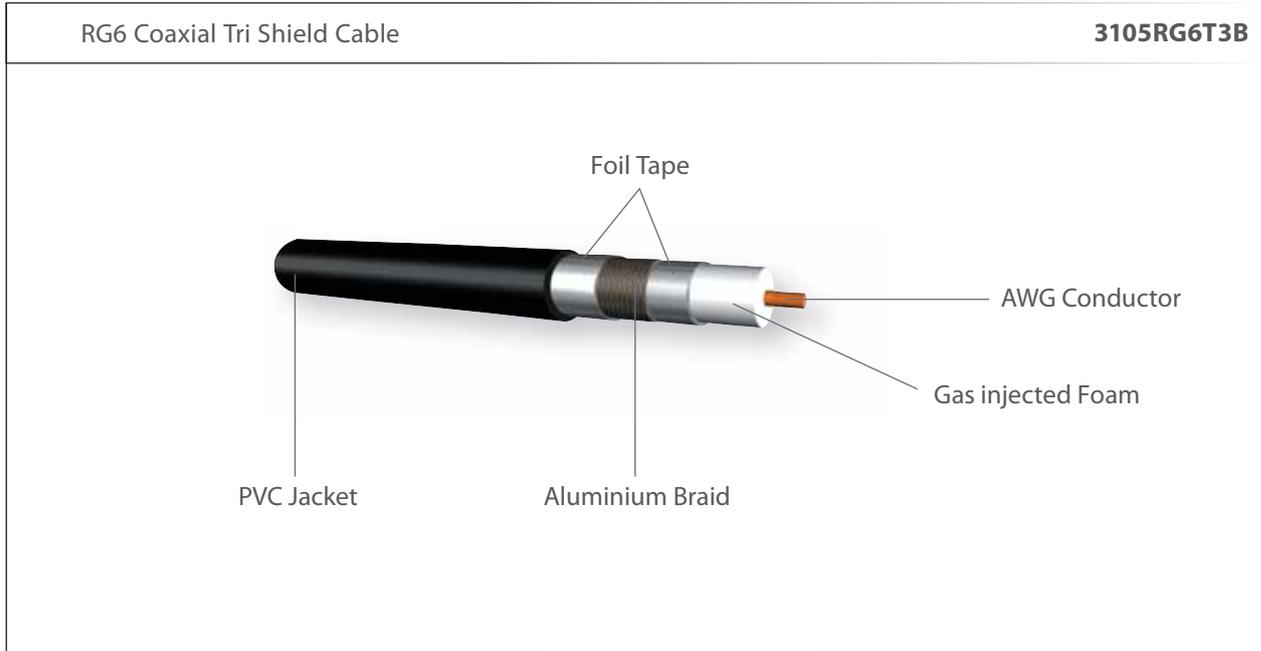
All unused ports of a Drop Tap or Splitter should be terminated with a 75 Ohm Terminator to stop electrical reflections interfering with TVs connected to the system.

Pack of 10.





RG6



| Catalogue Number | Description | Pack Size | Foxtel Approval No. | Austar Approval No. |
|------------------|-------------------------|-----------|---------------------|---------------------|
| 3105RG6T3B | RG6 Coax Tri Shield Box | 305m Box | F10176 | N/A |

| Conductor Size (mm) | AWG | Cond. Type | Shield Type | Nom. O.D (mm) | Insl. & Core O.D (mm) |
|---------------------|-----|------------|----------------------|---------------|-----------------------|
| 1.02 ± 0.03 | 18 | Solid | 60% Aluminium Braids | 7.06 ± 0.02 | 4.78 ± 0.13 |

| 5MHz | 55MHz | 211MHz | 250MHz | 270MHz | 300MHz | 330MHz | 350MHz | 400MHz | 450MHz | 500MHz | 550MHz | 600MHz | 750MHz | 870MHz | 1000MHz | 1450MHz | 1750MHz | 2050MHz |
|------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 1.90 | 5.25 | 10.00 | 10.82 | 11.04 | 11.64 | 12.26 | 12.63 | 13.61 | 14.43 | 15.29 | 16.08 | 16.73 | 18.54 | 20.04 | 21.49 | 26.25 | 28.67 | 31.04 |

Attenuation @ 20°C (dB/100m)



RG6 Coaxial Quad Shield Cable

3105RG6Qxxx



Siamese Quad Shield

| Catalogue Number | Description | Pack Size | Foxtel Approval No. | Austar Approval No. |
|------------------|------------------------------|-------------|---------------------|---------------------|
| 3105RG6Q3R | RG6 Coax Quad Shield | 305m Reel | F10129 | P07982 |
| 3105RG6Q3B | RG6 Coax Quad Shield | 305m Box | F10129 | P07982 |
| 3105RG6Q1R | RG6 Coax Quad Shield Box | 100m Reel | F10129 | P07982 |
| 3105RG6Q3RF | RG6 Coax Quad Shield Flooded | 305m Reel | F30059 | P07985 |
| 3105RG6Q515R | RG6 Coax Quad Shield Siamese | 152.5m Reel | F30432 | P07984 |

| Conductor Size (mm) | AWG | Cond. Type | Shield Type | Nom. O.D (mm) | Insl. & Core O.D (mm) |
|---------------------|-----|------------|----------------------------|---------------|-----------------------|
| 1.02 ± 0.03 | 18 | Solid BCCS | 60% & 40% Aluminium Braids | 7.54 ± 0.02 | 4.78 ± 0.13 |

| 5MHz | 55MHz | 211MHz | 250MHz | 270MHz | 300MHz | 330MHz | 350MHz | 400MHz | 450MHz | 500MHz | 550MHz | 600MHz | 750MHz | 870MHz | 1000MHz | 1450MHz | 1750MHz | 2050MHz |
|------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 1.90 | 5.25 | 10.00 | 10.82 | 11.04 | 11.64 | 12.26 | 12.63 | 13.61 | 14.43 | 15.29 | 16.08 | 16.73 | 18.54 | 20.04 | 21.49 | 26.25 | 28.67 | 31.04 |

Attenuation @ 20°C (dB/100m)



RG11

RG11 Coaxial Quad Shield Cable

3105RG11Q3R, 3105RG11Q3RF



| Catalogue Number | Description | Pack Size | Foxtel Approval No. | Austar Approval No. |
|------------------|------------------------------------|-----------|---------------------|---------------------|
| 3105RG11Q3R | RG11 Coax Quad Shield Reel | 305m Reel | F10175 | A02629 |
| 3105RG11Q3RF | RG11 Coax Quad Shield Flooded Reel | 305m Reel | F30060 | P07986 |

| Conductor Size (mm) | AWG | Cond. Type | Shield Type | Reel Length (m) | Nom. O.D (mm) | Insl. & Core O.D (mm) |
|---------------------|-----|------------|----------------------------|-----------------|---------------|-----------------------|
| 1.63 ± 0.03 | 14 | Solid BCCS | 60% & 40% Aluminium Braids | 305 | 10.34 ± 0.25 | 7.32 ± 0.15 |

| 5MHz | 55MHz | 211MHz | 250MHz | 270MHz | 300MHz | 330MHz | 350MHz | 400MHz | 450MHz | 500MHz | 550MHz | 600MHz | 750MHz | 870MHz | 1000MHz | 1300MHz | 1550MHz | 1770MHz | 2150MHz |
|------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 1.25 | 3.15 | 6.23 | 6.72 | 7.00 | 7.38 | 7.71 | 7.94 | 8.53 | 9.02 | 9.51 | 9.97 | 10.43 | 11.97 | 13.31 | 14.27 | 16.00 | 17.42 | 19.58 | 21.61 |

Attenuation @ 20°C (dB/100m)

RG59 Coaxial Dual Shield Cable 3105RG59D1R, 3105RG59D3B



| Catalogue Number | Description | Pack Size | Foxtel Approval No. | Austar Approval No. |
|------------------|---------------------------|-----------|---------------------|---------------------|
| 3105RG59D1R | RG59 Coax Dual Shield | 100m Reel | N/A | N/A |
| 3105RG59D3B | RG59 Coax Dual Shield Box | 305m Box | N/A | N/A |

| Conductor Size (mm) | AWG | Cond. Type | Shield Type | Nom. O.D (mm) | Insl. & Core O.D (mm) |
|---------------------|-----|------------|----------------------|---------------|-----------------------|
| 0.81 1 | 20 | Solid BCCS | 60% Aluminium Braids | 6.10 0.2 | 3.86 0.13 |

| 5MHz | 55MHz | 211MHz | 250MHz | 270MHz | 300MHz | 330MHz | 350MHz | 400MHz | 450MHz | 500MHz | 550MHz | 600MHz | 750MHz | 870MHz | 1000MHz |
|------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 2.82 | 6.73 | 12.47 | 13.45 | 13.85 | 14.6 | 15.29 | 15.75 | 16.73 | 17.72 | 18.70 | 19.52 | 20.34 | 22.87 | 24.85 | 26.64 |

Attenuation @ 20°C (dB/100m)



RG6 COMPRESSION

| | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|------------------------------|----------------------------------------|----------------------------------|----------------------------------|
| RG6 Compression Tool | 3105CT611C | | | | | |
|  | | | | | | |
| <table border="1"> <tr><td>Easy to use</td></tr> <tr><td>Swivel Head for RG6 and RG11</td></tr> <tr><td>For use with the following connectors:</td></tr> <tr><td>3105RG6FC50 - RG6 (Packet of 50)</td></tr> <tr><td>3105RG11FC2 - RG11 (Packet of 2)</td></tr> </table> | | Easy to use | Swivel Head for RG6 and RG11 | For use with the following connectors: | 3105RG6FC50 - RG6 (Packet of 50) | 3105RG11FC2 - RG11 (Packet of 2) |
| Easy to use | | | | | | |
| Swivel Head for RG6 and RG11 | | | | | | |
| For use with the following connectors: | | | | | | |
| 3105RG6FC50 - RG6 (Packet of 50) | | | | | | |
| 3105RG11FC2 - RG11 (Packet of 2) | | | | | | |

| | | | | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------|-----------------|--|--------|--------|--------|--------|-----------|--------------|
| RG6 Compression Connector | 3105RG6FC50 | | | | | | | | | |
|  | | | | | | | | | | |
| <table border="1"> <tr><td>3105RG6FC50 (Packet of 50)</td></tr> <tr><td colspan="2" style="text-align: center;">Approval Number</td></tr> <tr><td>Foxtel</td><td>F30029</td></tr> <tr><td>Austar</td><td>A06948</td></tr> <tr><td>Select TV</td><td>Not Required</td></tr> </table> | | 3105RG6FC50 (Packet of 50) | Approval Number | | Foxtel | F30029 | Austar | A06948 | Select TV | Not Required |
| 3105RG6FC50 (Packet of 50) | | | | | | | | | | |
| Approval Number | | | | | | | | | | |
| Foxtel | F30029 | | | | | | | | | |
| Austar | A06948 | | | | | | | | | |
| Select TV | Not Required | | | | | | | | | |

| | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------|---------------------------|
| RG6 & RG59 Cable Stripper | 3105CS6 | | |
|  | | | |
| <table border="1"> <tr><td>Easy to use - Termination techniques on pages 54-55</td></tr> <tr><td>Suits RG6 and RG59 cables</td></tr> </table> | | Easy to use - Termination techniques on pages 54-55 | Suits RG6 and RG59 cables |
| Easy to use - Termination techniques on pages 54-55 | | | |
| Suits RG6 and RG59 cables | | | |



RG11 Compression Tool

3105CT611C



| |
|----------------------------------------|
| Easy to use |
| Swivel Head for RG6 and RG11 |
| For use with the following connectors: |
| 3105RG6FC50 - RG6 |
| 3105RG11FC2 - RG11 |

RG11 Compression Connector

3105RG11FC2



| | |
|---------------------------|--------------|
| 3105RG11FC2 (Packet of 2) | |
| | |
| Approval Number | |
| Foxtel | F30360 |
| Austar | A06949 |
| Select TV | Not Required |

RG11 Cable Stripper

3105CS11



| |
|------------------------|
| Easy to use |
| Suits RG11 Coax Cables |



RG6 RADIAL CRIMP

RG6 Radial Crimp Tool **3105CT611**



| |
|----------------------------------------|
| Easy to use |
| For use with the following connectors: |
| 3105RG59F, 3105BNC6, 3105BNC59 |
| 3105RG6F, 3105RG6PM, 3105RG6PF |

RG6 Crimp Connector **3105RG6F**



| | |
|--------------------------------|--------------|
| 3105RG6F (Packet of 10) | |
| For use with Radial Crimp Tool | |
| Approval Number | |
| Foxtel | F10179/C |
| Austar | A01509 |
| Select TV | Not Required |

RG6 Cable Stripper **3105CS6**



| |
|---------------------------|
| Easy to use |
| Suits RG6 and RG59 Cables |



RG59 Radial Crimp Tool **3105CT611**



| |
|----------------------------------------|
| Easy to use |
| For use with the following connectors: |
| 3105RG59F, 3105BNC6, 3105BNC59 |
| 3105RG6F, 3105RG6PM, 3105RG6PF |

RG59 Compression Connector **3105RG59F**



| |
|--------------------------------|
| 3105RG59F |
| Packet of 10 |
| For use with radial Crimp Tool |

RG59 Cable Stripper **3105CS6**



| |
|---------------------------|
| Easy to use |
| Suits RG6 and RG59 Cables |



Do's and Don'ts

Insert coax cable into the stripping tool with the end of the coax level with the lip on the right hand side. Hold the cable close to the tool and spin around a few times. Not enough spins of the stripping tool will leave the coax jacket on and too many spins will cut away

the shielding. Hold the stripping tool by the jaws and pull away from cable without opening the jaws of the stripping tool. The stripped cable will look like the following diagram.



Fold back the first braid then fold back the first foil. Fold back the second braid but DO NOT remove the last foil as this is bonded to the Dielectric. Fold back braid and foil evenly in each direction to ensure the connector slides on easily. A good preparation should look like the following diagram.



Do's and Don'ts

Slide the connector on straight. DO NOT slide connector at an angle because it will damage the cable. Look at the front of the connector. If

the cable is damaged then remove the connector and start again. DO NOT terminate connector.

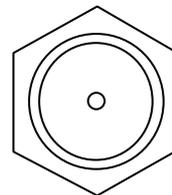


A connector slid on at an angle will result in the cable looking like the following diagram.



Slide the cable up to the base of the connector. A good termination should be level with the base of the connector.

When the cable is inside the connector it will look like the following diagram.



Once the connector has been installed correctly only then should you use the tool to terminate.



Features and Benefits

Displays RF level and post BER together with S/N on large display in real time. Run time in excess of five hours on a full charge. Built-in charger with rechargeable NiMH battery.

Specifications

VHF 6-12 UHF 21-69

VHF Band 3 and UHF e.g. 167-862 MHz 7 M Bandwidth

Automatic Constellation and transmitter offset

C/N up to 32dB in 0.5dB steps accuracy +-1dB

RF level 25dBuV to 75dBuV accuracy +-1dB over all bandwidth and under indication

Input range -72dBm-20dBm

Charger 100-240V Ac or 12V Dc

Battery 2.4 Ah NiMH 7.2V 6 cell

BCN - PAL + BCN F-Type adaptors included

2x 10dB attenuators included



This meter is a Digital Field Strength Meter and will not measure any channel below VHF 6.



Digital Field Strength Meter



RF Screen

Allows you to scroll through VHF and UHF channels and measure the signal strength.

Step Through

Use the arrow buttons to scroll through VHF and UHF channels.

RF Level

Shows the level of signal strength numerically.



Bar reading of signal strength.

DVB-T

This will appear if the signal is a digital video broadcast terrestrial. If this appears then press the ON button to change to the BER page. If this does not appear the signal is an analogue signal.



BER Screen

Measures the Bit Error Ratio.

Step Through

Use the arrow buttons to scroll through the VHF and UHF channels.

BER

Shows the number of errors within the signal. Use to measure the quality of the digital signal only.

PASS

PASS or FAIL will appear dependant on the number of errors.



Bar reading of signal strength.

SN 29dB

Signal to Noise Ratio. Measures the amount of signal versus electrical noise within the cable. The higher the number the better.



MATV Tool Box

3105TOOLBOX

Clipsal Australia have provided a MATV tool box that has the essentials required to carry out MATV installations. Refer to chart below for the great range of products included.



| Product | Cat No. | Qty. |
|--------------------------------|-------------|---------------|
| Compression Tool | 3105CT611C | 1 |
| Hex Crimp Tool | 3105CT611C | 1 |
| Coax Cable Stripper | 3105CS6 | 1 |
| Hex Nut Spanner | - | 1 |
| Coax Cable Cutters | - | 1 |
| UTP Cable Stripper | - | 1 |
| 2 Way Splitter Terrestrial | 3105SPF2 | 4 |
| 3 Way Splitter Terrestrial | 3105SPF3 | 4 |
| 4 Way Splitter Terrestrial | 3105SPF4 | 4 |
| 2 Way Splitter Satellite | 3105SPFP2 | 4 |
| 3 Way Splitter Satellite | 3105SPFP3 | 4 |
| 4 Way Splitter Satellite | 3105SPFP4 | 4 |
| F-Type Compression Connectors | 3105RG6FC50 | 50 Connectors |
| F-Type Radial Crimp Connectors | 3105RG6F | 50 Connectors |
| PAL Crimp Connectors | 3105RG6PM | 50 Connectors |
| F-Type to F-Type Adaptors | - | 20 Adaptors |



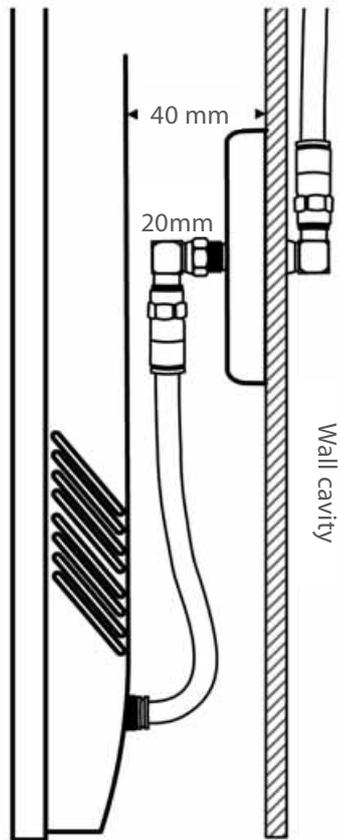
Right Angle Adaptor

3105FF-FMRA

Rated to 3GHz
Pack of 10
Foxtel approval number: F30356



Wall mounted Plasma/LCD scenario
with right angle adaptor.





F-TYPE ADAPTORS

F-Type to RCA Adaptor

3105FF-RCA

Pack of 1



F-Type to RCA Adaptor

3105FF-BNC

Pack of 1



F-Type Female to Female Coax Joiner

3105FF-FF

Pack of 10



F-TYPE TO PAL ADAPTORS



F-Type Female to PAL Male Adaptor

3105PM-FF

Pack of 10



F-Type Female to PAL Female Adaptor

3105PF-FF

Pack of 10



F-Type Male to PAL Female Adaptor

3105PF-FM

Pack of 10





PAL ADAPTORS

PAL Male to PAL Male

3105PM-PM

Pack of 10



PAL Female to PAL Female Adaptor

3105PF-PF

Pack of 10





F-type to PAL Male Fly Lead - RG6 Quad Shield White 1.8m

3105FL318MWQ



F-type to PAL Male Fly Lead - RG6 Quad Shield Black 1.8m

3105FL318MBQ



PAL Male to PAL Male - RG59 white 1.8m

3105FL118MW



PAL Male to PAL Male - RG59 white 5m

3105FL150MW



PAL Male to PAL Female - RG59 white 1.8m

3105FL118FW





3RCA to 3RCA Lead 1.8m **3105AVL318**



3RCA to 3RCA High Quality Lead 1.8m **3105AVL318HQ**



Scart - 6 RCA Lead 1.8m **3105SC-6RCA**



Scart - Scart Lead 1.8m **3105SC-SC**





| | |
|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| F-Type to F-Type TV Outlet | 30PFM |
| Pay TV approved outlet rated to 3GHz. Foxtel approval number: G135 |  |
| F-Type to PAL TV Outlet Straight | 30FFPFMS |
| To be released late 2007. Not suitable for satellite TV applications |  |
| F-Type to PAL TV Outlet Angled | 30TV75MF |
| Not suitable for satellite TV applications |  |
| F-Type to PAL TV Outlet AC Isolation | 30TV75MACF |
| Not suitable for satellite TV applications |  |
| Screw Termination to PAL | 30TV75MS |
| Not suitable for satellite TV applications |  |



| | | |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------|
| Single Gang Wall Plate | C2000 Series 2000 Series | C2031/1F 2031/1F |
| This wall plate contains the Clipsal 30PFM TV Mech |  C2031/1F | |

| | | |
|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------|
| Single Gang Wall Plate | C2000 Series 2000 Series | C2031VTV75F 2031VTV75F |
| This wall plate contains the Clipsal 30TV75MF TV Mech Screw style |  2031VTV75F | |

| | | |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------|
| Single Gang Wall Plate | C2000 Series 2000 Series | C2031VTV75 2031VTV75 |
| This wall plate contains the Clipsal 30TV75MS TV Mech |  2031VTV75 | |



StarServe Wall Plate

C2033/3F
2033/3F

This wall plate is the minimum requirement for Star Serve main entertainment areas.

This wall plate can be made up of the following Clipsal products:

- | | | |
|----|---------|-------------------|
| 3x | 30PFM | F-Type TV Mech |
| 1x | C2033VH | 3 Gang Wall Plate |



C2033/3F

StarServe Wall Plate

C2034RJA5/3F
2034RJA5/3F

This wall plate can be made up of the following Clipsal products:

- | | | |
|----|------------|---------------------|
| 3x | 30PFM | F-Type TV Mech |
| 1x | 30RJ88SMA5 | Cat 5e data outlets |
| 1x | C2034VH | 4 Gang Wall Plate |



C2034RJA5/3F

StarServe Wall Plate

C2034RJA5/2F
2034RJA5/2F

This smart wired wall plate can be made up of the following Clipsal products:

- | | | |
|----|------------|---------------------|
| 2x | 30PFM | F-Type TV Mech |
| 2x | 30RJ88SMA5 | Cat 5e data outlets |
| 1x | C2034VH | 4 Gang Wall Plate |



C2034RJA5/2F



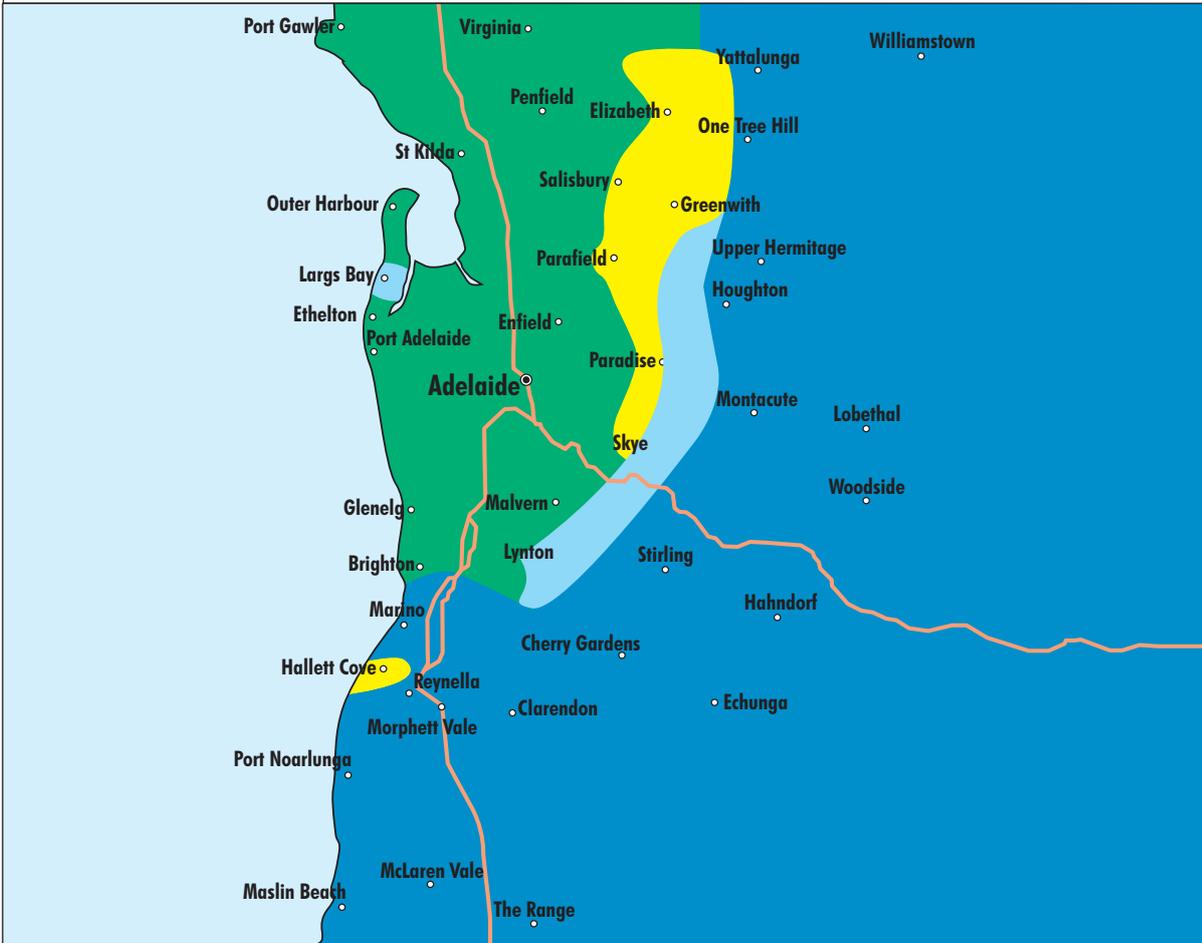
| | | | | | | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------------------|----------------|----|------------|---------------------|----|---------|-------------------|---------------------------------------------------------------------------------------------------------------|
| StarServe Wall Plate | C032RJA5/1F 2032RJA5/1F | | | | | | | | | |
| <p>Suggested minimum cabling to all bedrooms. This wall plate can be made up of the following Clipsal products:</p> <table><tr><td>1x</td><td>30PFM</td><td>F-Type TV Mech</td></tr><tr><td>1x</td><td>30RJ88SMA5</td><td>Cat 5e data outlets</td></tr><tr><td>1x</td><td>C2032VH</td><td>2 Gang Wall Plate</td></tr></table> | 1x | 30PFM | F-Type TV Mech | 1x | 30RJ88SMA5 | Cat 5e data outlets | 1x | C2032VH | 2 Gang Wall Plate |  <p>C032RJA5/1F</p> |
| 1x | 30PFM | F-Type TV Mech | | | | | | | | |
| 1x | 30RJ88SMA5 | Cat 5e data outlets | | | | | | | | |
| 1x | C2032VH | 2 Gang Wall Plate | | | | | | | | |

| | | | | | | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------------------|----------------|----|------------|---------------------|----|---------|-------------------|-----------------------------------------------------------------------------------------------------------------|
| StarServe Wall Plate | C033RJA5/1F 2033RJA5/1F | | | | | | | | | |
| <p>Suggested minimum cabling to all bedrooms. This wall plate can be made up of the following Clipsal products:</p> <table><tr><td>1x</td><td>30PFM</td><td>F-Type TV Mech</td></tr><tr><td>2x</td><td>30RJ88SMA5</td><td>Cat 5e data outlets</td></tr><tr><td>1x</td><td>C2033VH</td><td>3 Gang Wall Plate</td></tr></table> | 1x | 30PFM | F-Type TV Mech | 2x | 30RJ88SMA5 | Cat 5e data outlets | 1x | C2033VH | 3 Gang Wall Plate |  <p>C033RJA5/1F</p> |
| 1x | 30PFM | F-Type TV Mech | | | | | | | | |
| 2x | 30RJ88SMA5 | Cat 5e data outlets | | | | | | | | |
| 1x | C2033VH | 3 Gang Wall Plate | | | | | | | | |

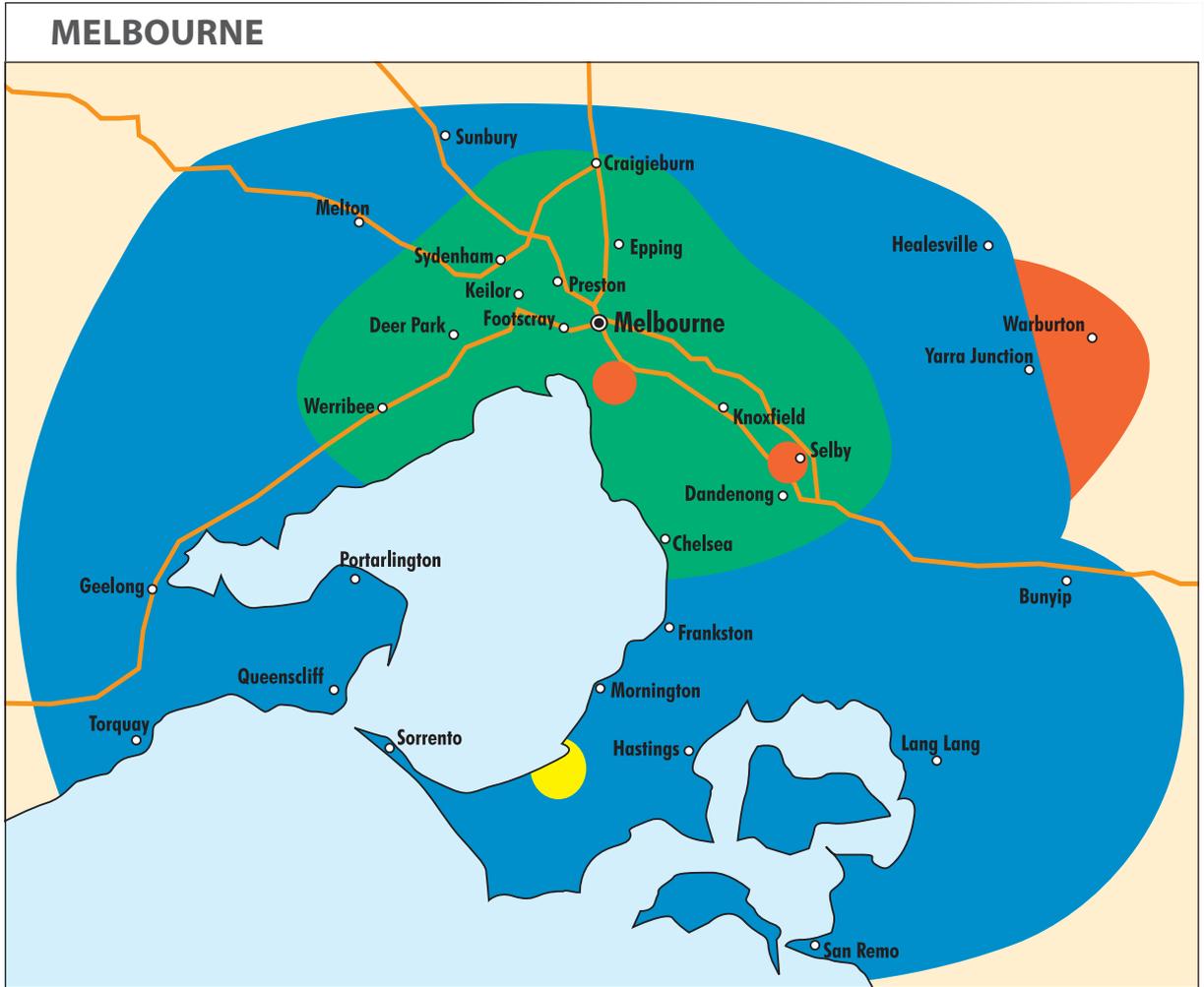
| | | | | | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------------------|----------------|----|------------|---------------------|----|---------|-------------------|-----------------------------------------------------------------------------------------------------------------|
| StarServe Wall Plate | C034RJA5/1F 2034RJA5/1F | | | | | | | | | |
| <p>This wall plate is ideal for the study. This wall plate can be made up of the following Clipsal products:</p> <table><tr><td>1x</td><td>30PFM</td><td>F-Type TV Mech</td></tr><tr><td>3x</td><td>30RJ88SMA5</td><td>Cat 5e data outlets</td></tr><tr><td>1x</td><td>C2034VH</td><td>4 Gang Wall Plate</td></tr></table> | 1x | 30PFM | F-Type TV Mech | 3x | 30RJ88SMA5 | Cat 5e data outlets | 1x | C2034VH | 4 Gang Wall Plate |  <p>C034RJA5/1F</p> |
| 1x | 30PFM | F-Type TV Mech | | | | | | | | |
| 3x | 30RJ88SMA5 | Cat 5e data outlets | | | | | | | | |
| 1x | C2034VH | 4 Gang Wall Plate | | | | | | | | |

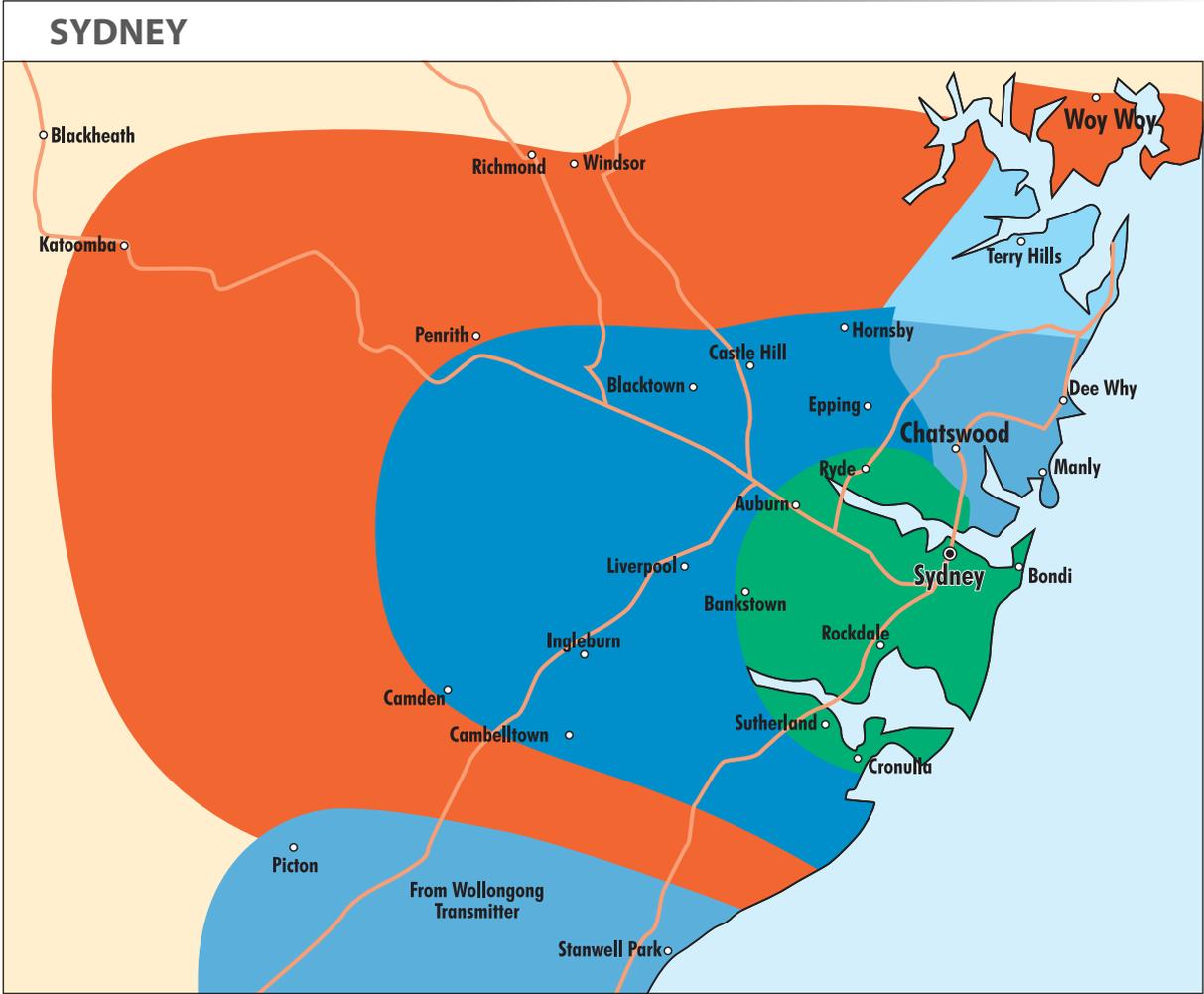


ADELAIDE

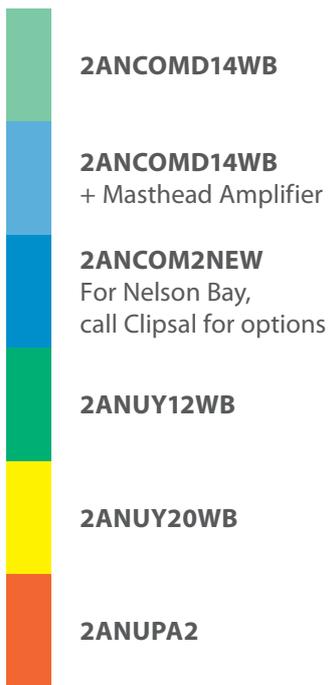
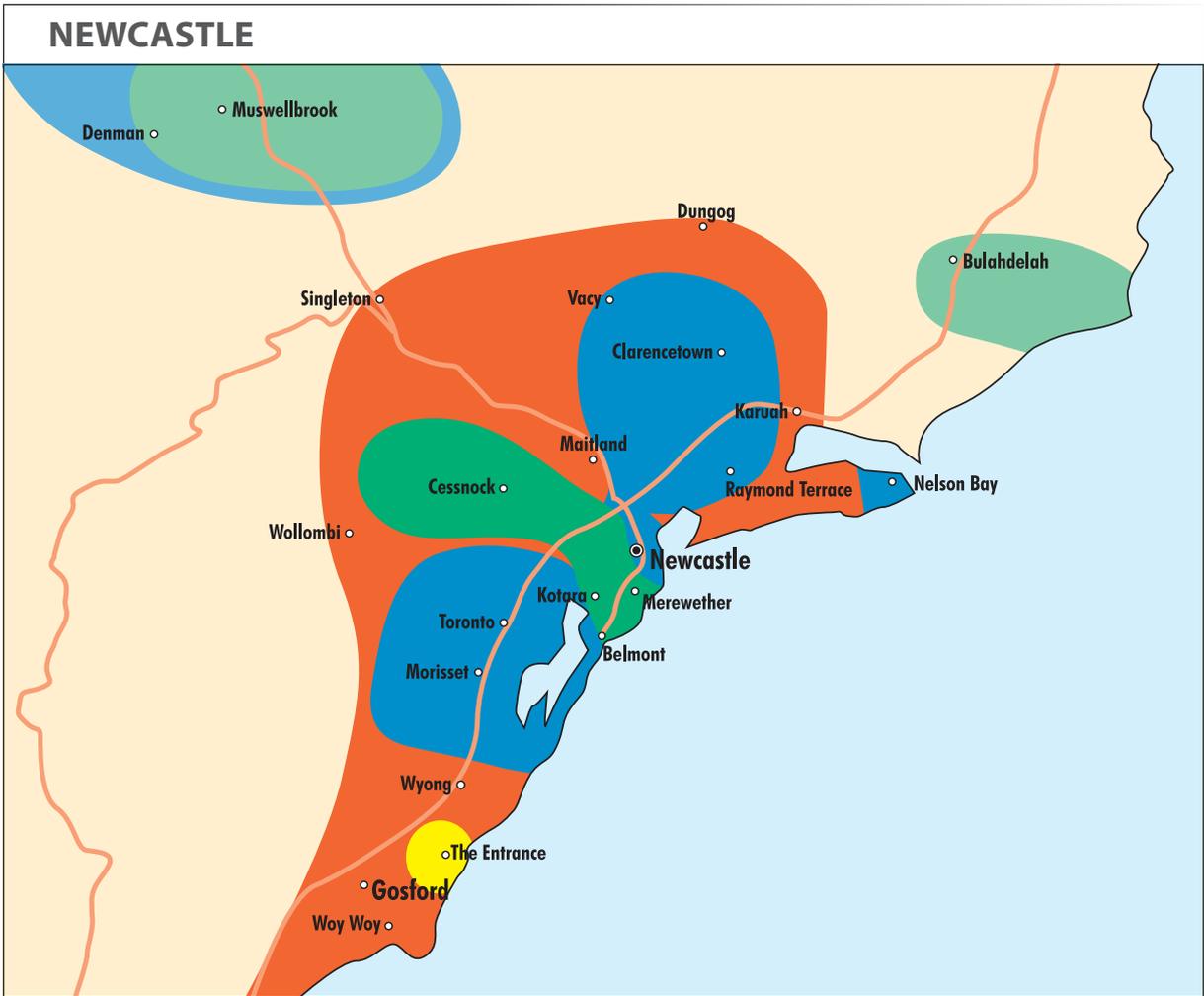


-  **2ANCOM3**
-  **2ANCOM4 or 2ANCOM6**
-  **2AN 2ANUY12WB or 2ANUY20WB**
(Multiple Outlets)
-  **2ANV2WB + 2ANUY12WB**
(Requires Diplexer refer to page 43)



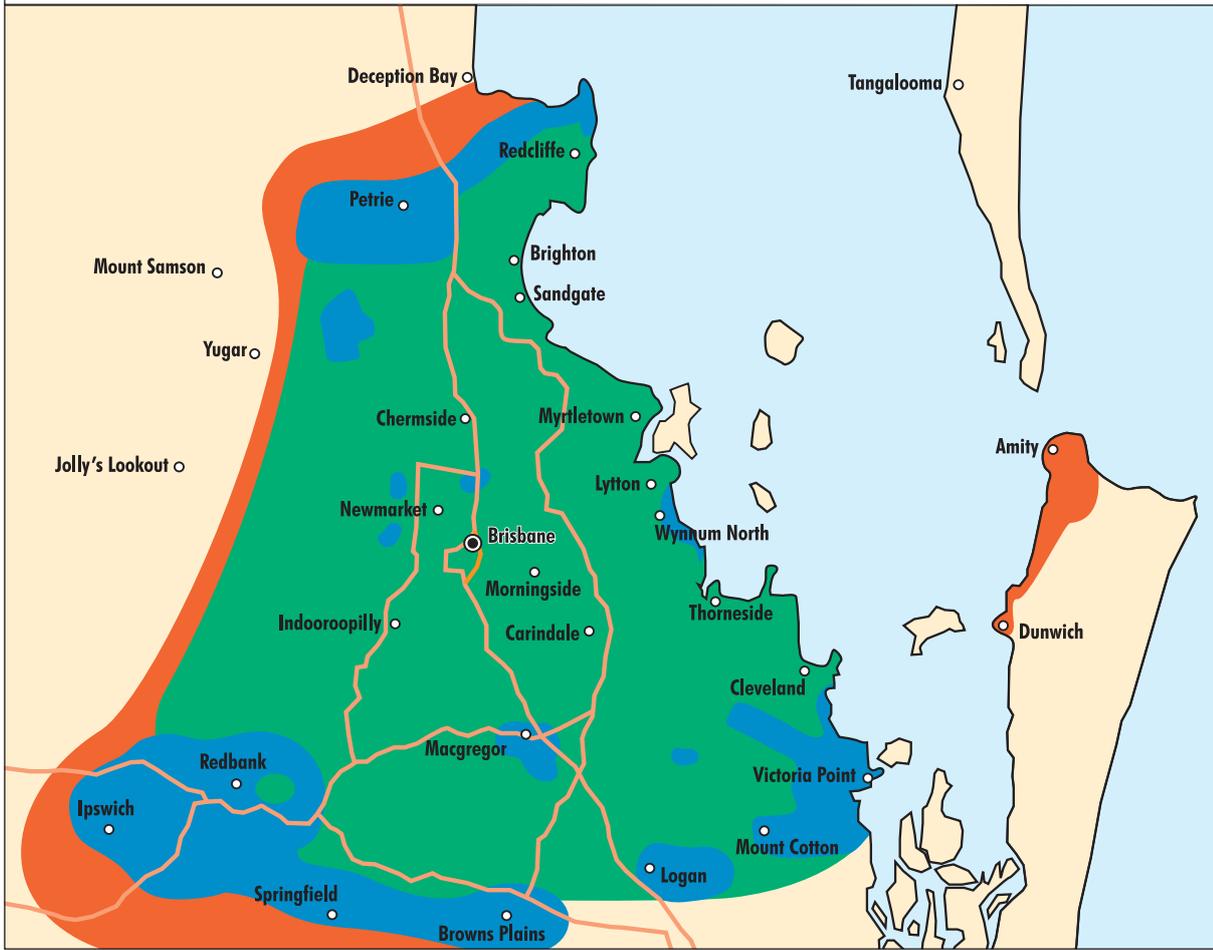


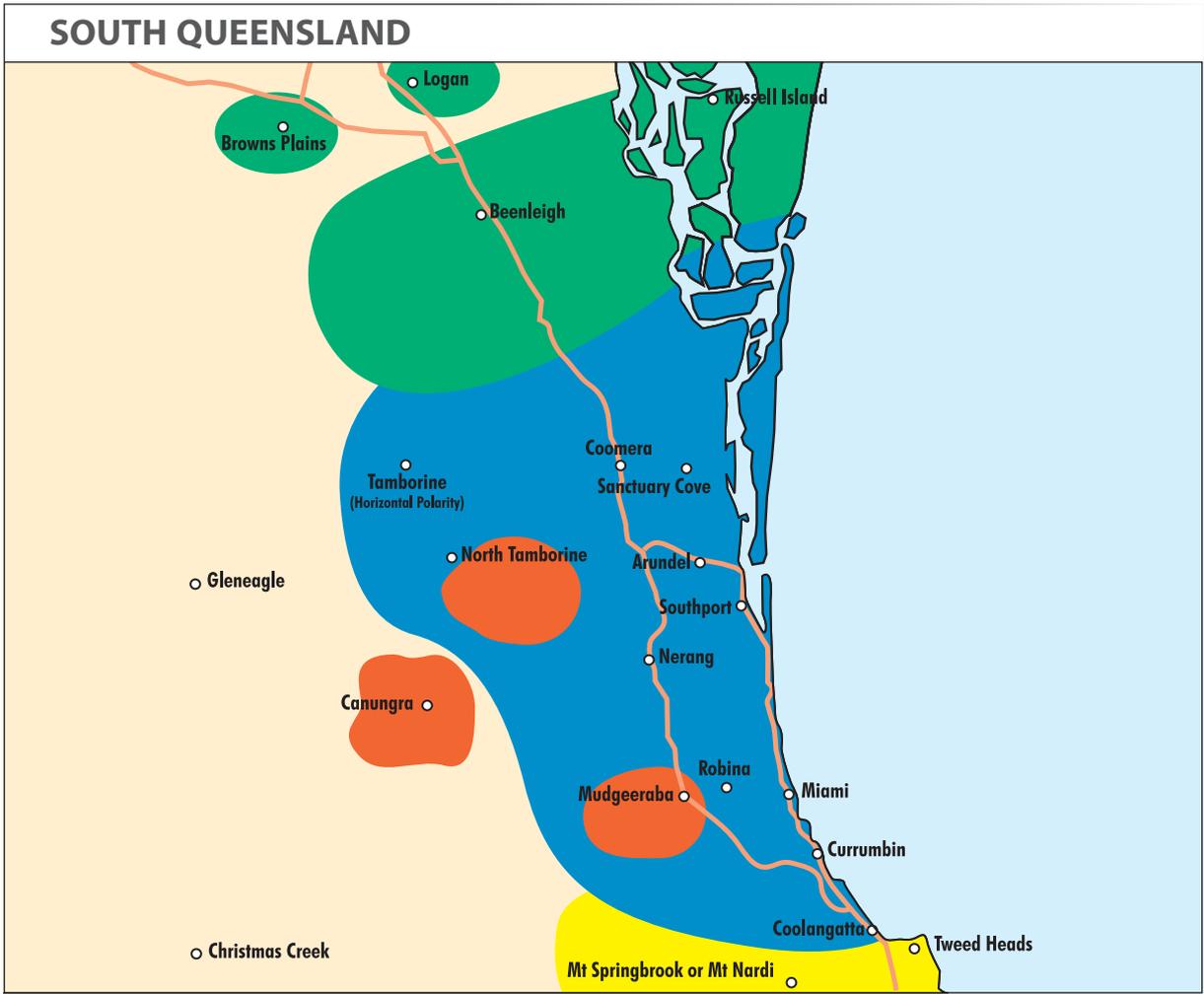
-  **2ANCOM3**
Inner city Kings Cross translator line-of-sight use **2ANUPA1** or **2ANUX43**
-  **2ANCOM4** or **2ANYV10 + 2ANUY20WB**
(Requires Diplexer refer to page 43)
-  **2ANCOM6** or **2ANVY10 + 2ANUX91**
(Requires Diplexer refer to page 43)
-  **2ANUY20WB**
-  **2ANUPA2**



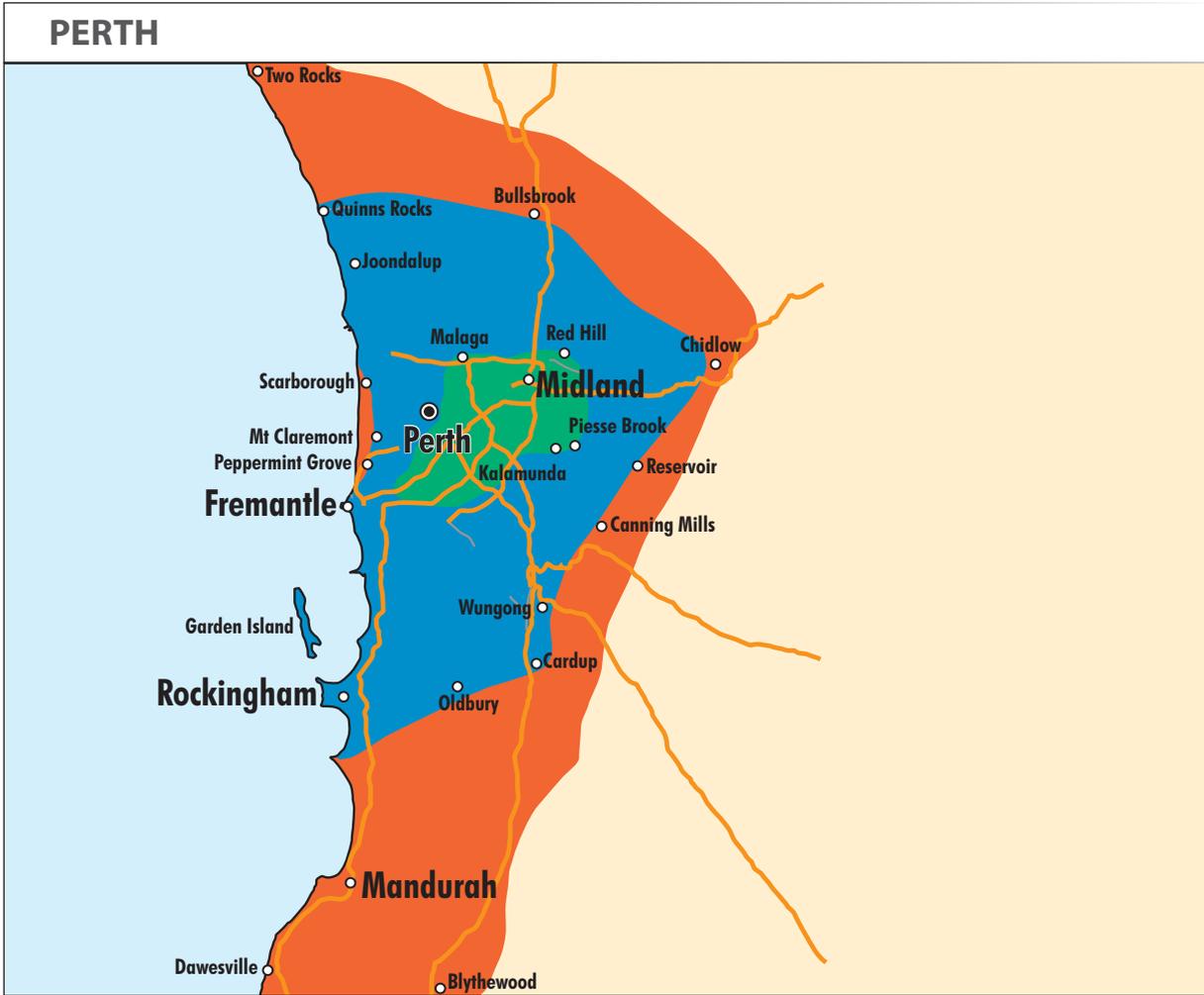


BRISBANE





- 2ANCOM3 or 2ANCOM4**
(Multiple Outlets)
- 2ANUY12WB or 2ANUY20WB**
(Multiple Outlets)
- 2ANUPA2**
- 2ANCOMD14WB or 2ANVY10 + 2ANUY20WB**
(Requires Diplexer refer to page 43)





When it comes to antenna installation, the choice is clear ▶

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A member of the Schneider Electric Group

Head Office

12 Park Terrace, Bowden
South Australia 5007
Telephone (08) 8269 0511
Facsimile (08) 8340 1724
Internet clipsal.com
E-Mail plugin@clipsal.com.au

National Customer Service Enquiries:

1300 2025 25

National Customer Service Facsimile:

1300 2025 56

International Enquiries

International Sales and Marketing

Telephone + 61 8 8269 0587
Facsimile + 61 8 8340 7350
E-Mail export@clipsal.com.au

New Zealand

Clipsal Industries (NZ) Ltd

Telephone (09) 576 3403
Facsimile (09) 576 1015
E-Mail headoffice@clipsal.co.nz

Customer Service

Free Fax (0508) 250 305
Auckland/Mobile Phone (09) 572 0014
Free Phone (0508) CLIPSAL
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