



# LMR SITE SOLUTIONS

SITE ANTENNAS / RF FILTER COMBINERS / GROUNDING SYSTEMS  
RF FEEDER CABLES & HARDWARE / DC SUBSYSTEMS / RACK SYSTEMS



EDITION 0.3



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EST. 1978

Since its establishment in 1978, Benelec Pty. Ltd. has been supplying transmission components and devices and antenna systems to the professional radio communications, public safety, auto vehicle location (AVL), wireless, broadcast and defence industries for frequency bands 2MHz to 6GHz.

Antenna products and systems are designed and manufactured at the Botany facility which occupies over 3,000 square meters, comprising metal and plastic parts engineering manufacturing, metal finishing plants, assembly lines, warehousing, sales, distribution and administration.

Benelec also offers its design, manufacturing and processing facilities through its industrial services division to provide solutions to industry problems for volume reprocessing, repairs, retrofits, modifications, refinishing and repackaging.

Sales and warehousing facilities are provided through Benelec Offices in NSW, Queensland and Western Australia. Exports are handled from the NSW Branch.

Benelec products have earned an enviable reputation for good design and a high quality of materials and manufacturing, underscored by better than industry average performance and durability. Starting from a high base, we consistently strive to improve our products.

At Benelec we are a team of caring members who work well together and enjoy what we do, which is to provide our customers with honest, straightforward, prompt and reliable service.

***Over 43 years  
of service to the radio industry***

***Our motto is  
'Care & Effort'***



# CATALOGUE CONTENTS



Site Antennas

Pages 4 - 33

Antenna Hardware

Pages 34 - 45

<b>VHF Site Antennas</b> .....	4 - 13
Low-Band VHF 40 - 42 MHz.....	5
Mid-Band VHF 70 - 90 MHz.....	5
FM VHF 88 - 108 MHz.....	7
Air VHF 118 - 136 MHz.....	8
Hi-Band VHF 136 - 175 MHz.....	10
 <b>UHF Base Antennas</b> .....	14 - 39
Omni-Directional 330 - 520 MHz.....	15
Directional 325 - 600 MHz.....	23
Environmental Yagi Supports.....	26
UHF 800 MHz Link Base Antennas.....	28
Cellular Antennas.....	34
 <b>Antenna Hardware</b> .....	40-51
Base Antenna Hardware .....	41
Base Site Mounts.....	45

## VHF Site Antennas

### 40 - 42 MHz - Low Band

- 02337 Field Tunable Base Centre Fed Dipole
- 02339 Base Sloping Ground plane

### 66 - 90 MHz - Mid Band

- 02331 Base Folded Dipole - 1/4 wave mount
- 023310 Base Folded Dipole - 1/2 wave mount
- 02345 Base Collinear - Duplex
- 02346 Base Collinear - Simplex

### 88 - 108 MHz - FM Band

- 02530 Folded Dipole 250W, N Socket
- 02530A Folded Dipole 300W, 7-16 Din Socket

### 118 - 136 MHz - Air Band

- 02533 Base Folded Dipole
- 02553 Base Slopey Ground Plane
- 02556 Base Factory tuned Collinear
- 02557 Base Full Band Factory tuned Collinear

### 136 - 175 MHz - Hi Band

- 02544A Full bandwidth Enclosed Dipole
- 02531B Folded Dipole
- 02531B2 2 Stack Offset Array
- 02531B4 4 Stack Offset Array
- 02545 Simplex Base Station Antenna
- 02546 Simplex Enclosed Dipole
- 02548 Duplex Enclosed Dipole
- 02583 3 Element Yagi
- 02584 4 Element Yagi
- 02586 6 Element Yagi

**02337**

**VHF Low-Band, 40 - 42 MHz  
Field Tunable Base Centre Fed Dipole**

Can be tuned to a 0.4 Mhz segment within the frequency 40 - 42 MHz. For indoor and outdoor paging applications.

Optional Bracket: **027281**

Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
40 - 42 MHz	0.4 MHz	0 ~ 2 dBd	200 Mhz	UHF socket	L: 1300mm	0.275kg

Site Antennas



**02339**

**VHF Low-Band, 40 - 42 MHz  
Base Sloping Ground Plane**

Monocone antenna for outdoor communications, covering 40 MHz paging bands. It is heavy duty, simple to install, and ideally suited to paging applications. The radiation pattern of the 02339 is slightly inclined below the horizon, enhancing low angle radio coverage.

Optional Bracket: **02815, 02813**

Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
40 - 42 MHz	2 MHz	0 ~ 2.5 dBd	200 MHz	N socket	L: 3025mm W: 1632mm	2kg



**02331**

**VHF Mid-Band, 70 - 85 MHz  
Folded Dipole - 1/4 Wave**

The 02331 antenna is a folded dipole antenna for use in the Mid Band VHF commercial radio band. Its wide bandwidth is ideal in Duplex and Multi-coupling applications. The 02331 antenna is intended for quarter-wave mounting off a vertical structure, which offers a stable directional, radiation pattern across the whole band 70-85 MHz. With the use of the appropriate phasing harness, the 02331 antenna can be stacked in two or four stack configurations for increased gain requirements. Its robust construction ensures excellent longevity and performance. The all Stainless Steel construction is ideally suited for weather and corrosion resistance.

Optional Bracket: **02815, 02812, 028131**

Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
70 - 85 MHz	15 MHz <1.5:1	0 ~ 2 dBd	250W	N socket	L: 1308mm W: 1788mm	4.5kg





**023310**

**VHF Mid-Band, 70 - 85 MHz  
Folded Dipole - 1/2 Wave**

Wide band VHF Mid Band, Duplex/Multi-coupling. intended for half-wave mounting off a vertical structure, which offers a stable radiation pattern across the whole band 70 - 85 MHz.

Optional Bracket: **02815, 02812, 028131**

Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
70 - 85 MHz	15 MHz <1.5:1	0 ~ 2.5 dBd	250W	N socket	L: 2508mm W: 1788mm	5kg

**02345**

**VHF Mid-Band, 70 - 85 MHz  
Base Collinear - Duplex**

The 02345 is a Base Station antennas covering the VHF MidBand Commercial Radio Band. It offers a stable radiation pattern with negligible horizontal pattern tilt. Its robust construction ensures excellent longevity and performance. Rugged fibreglass and stainless steel tube. The smooth white tapered Radome presents an attractive profile.

Model 02345 has a Base coverage for Simplex and Duplex segment Factory Tuned at specified 3% segment (~2.5MHz).

Optional Bracket: **028115, 02813, 028131**



Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
70 - 85 MHz	3% (2.5MHz)	3 ~ 5 dBd	100W	N socket	Length 5.6m (at 70MHz) OD: 50mm	8.4kg

**02346**

**VHF Mid-Band, 70 - 85 MHz  
Base Collinear - Simplex**

The 02346 is a Base Station antennas covering the VHF MidBand Commercial Radio Band. It offers a stable radiation pattern with negligible horizontal pattern tilt. Its robust construction ensures excellent longevity and performance. Rugged fibreglass and stainless steel tube. The smooth white tapered Radome presents an attractive profile. The 02346 is a Simplex model Factory Tuned at specified 1% segment ~0.75MHz.

Optional Bracket: **028115, 02813, 028131**



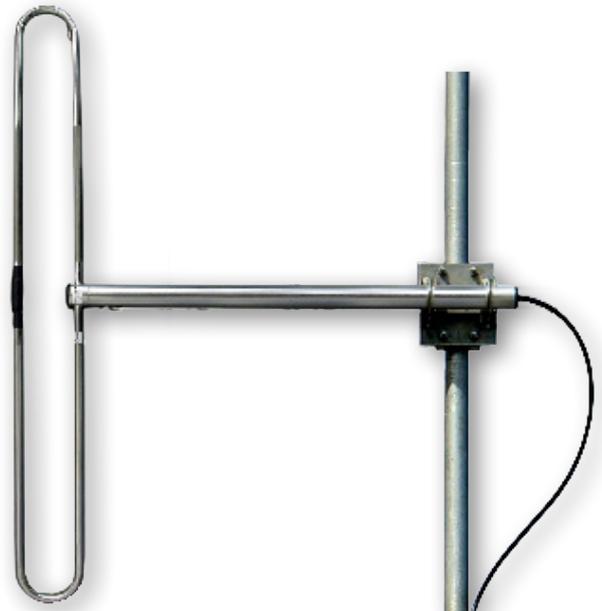
Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
70 - 85 MHz	1% (0.75MHz)	3 ~ 5 dBd	100W	N socket	Length 5.6m (at 70MHz) OD: 50mm	9.3kg

**02530 / 02530A**

**VHF FM, 88 - 108 MHz  
Folded Dipole**

The 02530 antenna is a unity Gain, Stainless Steel, Side Mount Dipole antenna for use in the FM commercial radio band. Its wide bandwidth is ideal applications where wide bandwidth is required. The 02530 antenna offers a stable radiation pattern across the whole band 88-108 MHz. With the use of the appropriate phasing harness, the 02530 can be stacked in two or four stack configurations for increased gain requirements. Its robust construction ensures excellent longevity and performance. The all Stainless Steel construction is ideally suited for weather and corrosion resistance.

Optional Bracket: **02815, 02812, 028131**



Part	Frequency	Tuned Bandwidth	Gain	Max Power	Termination	Dimensions	Weight
<b>02530</b>	88 - 108 MHz	20 MHz	0 ~ 2.5 dBd	250W	N socket	L:1500mm W:1400mm Boom:1100mm	5kg
<b>02530A</b>	88 - 108 MHz	20 MHz	0 ~ 2.5 dBd	300W	7-16 Din socket	L:1500mm W:1400mm Boom:1100mm	5kg

**02533**

**VHF Air-Band, 118 - 136 MHz  
Folded Dipole**

The 02533 antenna is an all Stainless Steel, folded dipole antenna for use in the VHF air band, radio band. Its wide bandwidth is ideal for Duplex and Multi-coupling applications. The 02533 antenna is intended for quarter-wave mounting off a vertical structure, which offers a stable directional, radiation pattern across the whole band 118-136 MHz. With the use of the appropriate phasing harness, the 02533 antenna can be stacked in two or four stack configurations for increased gain requirements. Its robust construction ensures excellent longevity and performance. The all Stainless Steel construction is ideally suited for weather and corrosion resistance.



Optional Bracket: **02815, 02812, 028131**

Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
118 - 136 MHz	20MHz	3 ~ 5.14dBd	250 W	N socket	L: 2700mm W: 1086	6.5kg

**02553**

**VHF Air-Band, 118 - 136 MHz  
Slopey Ground Plane**

The 02553 is a Monocone antenna for outdoor communications, covering air bands. It is heavy duty, simple to install, and ideally suited to air band applications. The radiation pattern of the 02553 is slightly inclined below the horizon, enhancing low angle radio coverage.

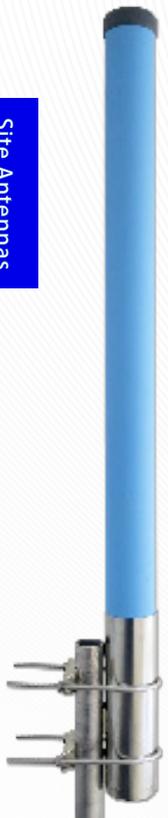


Optional Bracket: **02815, 02813**

Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
118 - 136 MHz	TBA	0 ~ 2.5 dBd	200W	N socket	TBA	TBA



Site Antennas



**02544A**

**Omni Enclosed Dipole, 135 - 174 MHz**

The model 02544A is a high gain base Station antenna covering the band 135-174MHz. This antenna offers a stable radiation pattern across the entire band. The antenna is enclosed in a heavy-duty fiberglass radome and has a fixed N type socket connector.

- Base Station applications
- Factory tuned, no further tuning required.
- All Stainless Steel
- Fully enclosed in a heavy duty radome
- Fixed N connector

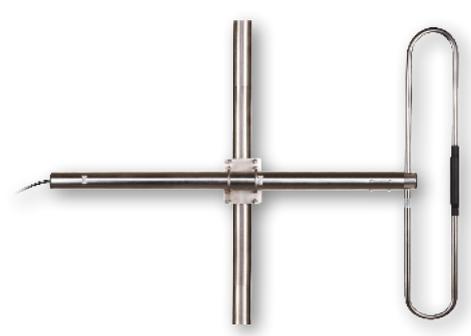
*Supplied with vertical member mounting bracket for 50 - 90mm Mounting Pole*

Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
135 - 174 MHz	39MHz <2.0:1	0 ~ 2.5 dBd	500W	N socket	L: 1331mm OD: 90mm	3kg

**02531B**

**VHF Hi-Band, 136 - 174 MHz Folded Dipole**

Electropolished Stainless Steel, Folded Dipole antenna for use in the High Band VHF commercial radio band. Its wide bandwidth is ideal in Duplexing and Multicoupling applications where numerous operators are required to be connected to one antenna system. With the use of the appropriate phasing harness, the 02531B antenna can be stacked in two or four stack configurations for increased gain requirements. The boom allows for mounting at  $1/2\lambda$  or  $1/4\lambda$  spacing from the support structure.



Supplied Bracket: **02815**  
for 50 - 63mm Mounting Pole

Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
136 - 174 MHz	Full Bandwidth Less than 1.5:1	0 ~ 2.5 dBd	500W	N plug	L: 1300mm W: 828mm	4.2kg

**02531B2**

**VHF Hi-Band, 136 - 174 MHz  
2 Stack Offset Array**

- 2 Stack Offset Stack configuration using 02531B folded dipole
- The boom allows for mounting at  $1/2\lambda$  or  $1/4\lambda$  spacing from the support structure.
- Includes complete kit for 2 Stack configuration include antennas phasing harnesses brackets and boom - All Stainless Steel construction
- Hi Band VHF, Marine VHF, Amateur 2M
- Gain \* 4 – 5.5 dBd
- Mounting Pole requirement 50 - 65mm Diameter, 4 metres long

Supplied Bracket each dipole: **02815**  
 Optional mounting pole clamp: **02814, 028131**  
*Mounting pole and pole clamps are supplied by the customer*



Site Antennas

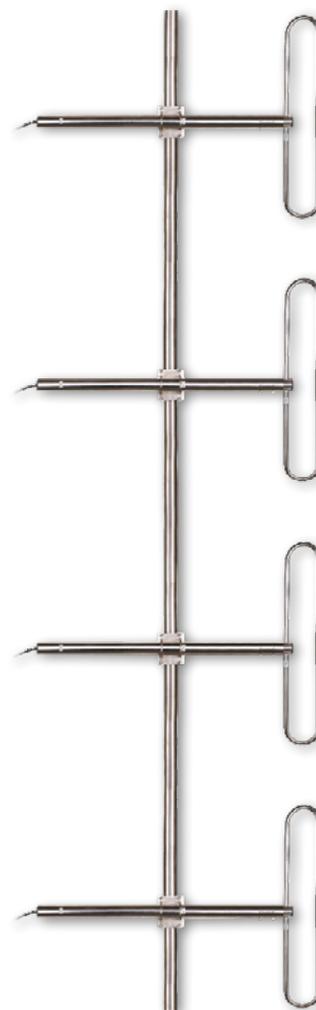
Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
136 - 174 MHz	38 MHz	4 ~ 5.5 dBd	500W	N socket	L: 1300mm W: 828mm	10kg

**02531B4**

**VHF Hi-Band, 136 - 174 MHz  
4 Stack Offset Array**

- 4 Stack Offset Stack configuration using 02531B folded dipole
- The boom allows for mounting at  $1/2\lambda$  or  $1/4\lambda$  spacing from the support structure
- Includes complete kit for 4 Stack configuration include antennas phasing harnesses brackets and boom - All Stainless Steel construction
- Hi Band VHF, Marine VHF, Amateur 2M
- Gain \* 6 dBd
- Mounting Pole requirement 50 - 65mm Diameter, 8 metres long

Supplied Bracket each dipole: **02815**  
 Optional mounting pole clamp: **02814, 028131**  
*Mounting pole and pole clamps are supplied by the customer*



Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
136 - 174 MHz	Full Bandwidth Less than 1.5:1	7 ~ 8.5 dBd	500W	N socket	L: 1300mm W: 828mm	20kg

**02545**

## VHF, 144 - 174 MHz 0dBd Simplex Base Station Antenna

The 02545 antenna, is a unity gain, Omni-Directional Simplex Base Station antenna covering the HiVHF 144-174 MHz Radio Band. The 02545 antenna offers 2% bandwidth for applications where close spaced channels are used. It offers a stable radiation pattern with negligible horizontal pattern tilt. Its robust construction ensures excellent longevity and performance.

Optional Bracket: **02811S, 02813, 028131**

Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
144 - 174 MHz	2% <1.5:1	0 dBd	50W	N socket	L: 1520mm	3kg

**02546**

## VHF, 146 - 174 MHz 3dBd Simplex Enclosed Dipole

The 02546 antenna, is a 3dBd Gain, Omni-Directional Simplex Base Station antenna covering the 146-174 MHz Radio Band. The 02546 antenna offers 1% bandwidth for applications where close spaced channels are used. It offers a stable radiation pattern with negligible horizontal pattern tilt. Its robust construction ensures excellent longevity and performance.

Optional Bracket: **02811S, 02813, 028131**

Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
146 - 174 MHz	1% <1.5:1	3 dBd	50W	N socket	L: 3200mm	5kg

**02548**

## VHF, 146 - 174 MHz 3dBd Duplex Enclosed Dipole

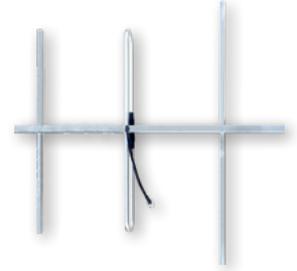
The 02548 antenna, is a 3dBd Gain, Omni-Directional Duplex Base Station antenna covering the 146-174 MHz Radio Band. The 02548 antenna allows sufficient bandwidth to cover the 6.0MHz Tx/RX Duplex spread within this band. It offers a stable radiation pattern with negligible horizontal pattern tilt. Its robust construction ensures excellent longevity and performance.

Optional Bracket: **02811S, 02813, 028131**

Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
146 - 174 MHz	3.75% <1.5:1	3 dBd	50W	N socket	L: 3000mm	5kg

**02583**

**VHF, 148 - 174 MHz  
6dBd 3-Element Yagi**



The 02583 antenna is a 3 Element all stainless steel directional yagi antenna for use in the 148-174MHz radio band. Its gain affords excellent radio link coverage. Its robust construction ensures excellent longevity and performance.

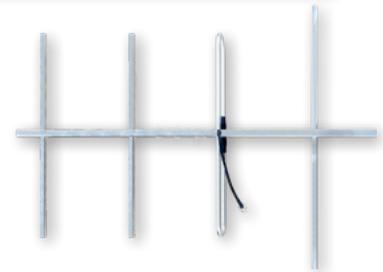
Supplied Bracket: **Tilt Adjustable pole mount**

Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
148 - 174 MHz	8 MHz <1.5:1 VSWR. (+/-4MHz off centre frequency)	6 dBd	100W	N socket	L: 1500mm W: 1000mm	4.5kg

Site Antennas

**02584**

**VHF, 148 - 174 MHz  
7.5dBd 4-Element Yagi**



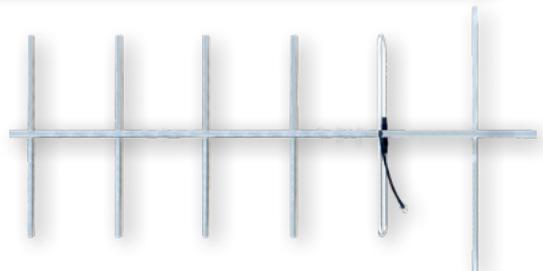
The 02584 antenna is a 4 Element all stainless steel directional yagi antenna for use in the 148-174MHz radio band. Its gain affords excellent radio link coverage. Its robust construction ensures excellent longevity and performance.

Supplied Bracket: **Tilt Adjustable pole mount**

Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
148 - 174 MHz	8 MHz <1.5:1 VSWR. (+/-4MHz off centre frequency)	7.5 dBd	100W	N socket	L: 2200mm W: 1000mm	7kg

**02586**

**VHF, 148 - 174 MHz  
9dBd 6-Element Yagi**



The 02586 antenna is a 6 Element all stainless steel directional yagi antenna for use in the 148-174MHz radio band. Its gain affords excellent radio link coverage. Its robust construction ensures excellent longevity and performance.

Supplied Bracket: **Tilt Adjustable pole mount**

Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
148 - 174 MHz	8 MHz <1.5:1 VSWR. (+/-4MHz off centre frequency)	9 dBd	100W	N socket	L: 3400mm W: 1000mm	9kg

## UHF Base Antennas

### Omni-Directional 330 - 520 MHz

02681R2	330-420MHz Single 2 Stack Array 3dBd
02681V2	380-490MHz Single 2 Stack Array 3dBd
02681Z2	400-520MHz Single 2 Stack Array 3dBd
02681R4	330-420MHz Single 4 Stack Array 6dBd
02681V4	380-490MHz Single 4 Stack Array 6dBd
02681Z4	400-520MHz Single 4 Stack Array 6dBd
02681R22	330-420MHz Dual 2 Stack Array 2 x 3dBd
02681V22	380-490MHz Dual 2 Stack Array 2 x 3dBd
02681Z22	400-520MHz Dual 2 Stack Array 2 x 3dBd
02680A	360-520 MHz Folded Dipole Full Band 1 $\lambda$ length Stainless Mount Tube
02680AS	360-520 MHz Folded Dipole Full Band $\frac{1}{4}\lambda$ length Stainless Mount Tube
02680A2	360-520 MHz Offset 2 Stack Array Full Band
02680A4	360-520 MHz Offset 4 Stack Array Full Band
02666B	380-490MHz Enclosed Dipole Stainless base tube
02644A	UHF Base 0dBd 380-520MHz Enclosed Dipole Stainless base tube
02645	UHF Base 3dBd Spot Freq. BW - 0.8% 400-520MHz Stainless Mount Tube
02645D	UHF Base 3dBd Spot Freq. BW - 2.5% 400-520MHz Stainless Mount Tube
02647	UHF Base 6dBd Spot Freq. BW - 0.8% 400-520MHz Stainless Mount Tube
02647D	UHF Base 6dBd Spot Freq. BW - 2.5% 400-520MHz Stainless Mount Tube

### Directional 325 - 600 MHz

02679	Yagi 3 element 6dBd 325-600MHz 5% Bandwidth
02682Q	Yagi 6 element 9dBd 380-400MHz Welded + Polished S/S
02682R	Yagi 6 element 9dBd 400-420MHz Welded + Polished S/S
02682T	Yagi 6 element 9dBd 420-440MHz Welded + Polished S/S
02682W	Yagi 6 element 9dBd 450-480MHz Welded + Polished S/S
02682Z	Yagi 6 element 9dBd 480-520MHz Welded + Polished S/S
02683Q	Yagi 9 element 11dBd 370-400MHz Welded + Polished S/S
02683R	Yagi 9 element 11dBd 400-420MHz Welded + Polished S/S
02683T	Yagi 9 element 11dBd 420-440MHz Welded + Polished S/S
02683V	Yagi 9 element 11dBd 450-470MHz Welded + Polished S/S
02683X	Yagi 9 element 11dBd 470-490MHz Welded + Polished S/S
02683Y	Yagi 9 element 11dBd 490-510MHz Welded + Polished S/S
02684Q	Yagi 15 element 12dBd 380-400MHz Welded + Polished S/S
02684R	Yagi 15 element 12dBd 400-420MHz Welded + Polished S/S
02684V	Yagi 15 element 12dBd 450-470MHz Welded + Polished S/S
02684X	Yagi 15 element 12dBd 470-490MHz Welded + Polished S/S
02684Y	Yagi 15 element 12dBd 490-510MHz Welded + Polished S/S
02688Q	Corner Reflector 9dBd 380-460MHz Welded + Polished S/S

### Environmental Yagi Supports

028361	Single Yagi Support Kit - High Wind Areas
028362	Dual Yagi Support Kit - High Wind Areas

# Omni-Directional Antennas 330 - 520 MHz

**02681x2**

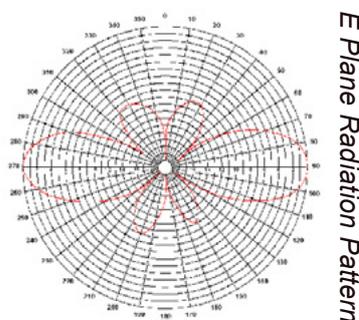
**330 - 520 MHz  
True Omni Dipole Array  
Single 2 Stack - 3dBd**



Site Antennas

True Omni-Directional Single Array covering the 330-420MHz, 380-490MHz and 400-520 bands. Ideally suited to transmitter/receiver multi-coupling applications where wide bandwidths are required. The Single Array offers 3dBd of gain on the horizon. Manufactured in Stainless Steel and has fully enclosed cabling. All welded construction. Available models with downtilt 3° and 6°.

- Full bandwidth
- Factory tuned, requires no further tuning
- Consistant gain in all directions
- 3dBd of gain
- All Stainless Steel construction
- All welded construction
- Internal cabling



Optional brackets: **02813, 028131, 02814**

Part	Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
<b>02681R2</b>	330 - 420 MHz	Full Bandwidth Less than 1.5:1	3 ~ 5 dBd	200W	N socket	L: 1633mm W: 283mm	7.5kg
<b>02681V2</b>	380 - 490 MHz						
<b>02681Z2</b>	400 - 520 MHz						

Electrical Downtilt order detail  
Suffix T3 for 3°, and T6 for 6°.

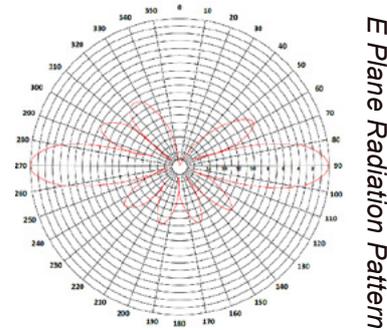
Alternative terminations  
Suffix R for 7 - 16 DIN socket.  
Suffix D for 4.3 - 10 DIN socket.

02681x4

330 - 520 MHz  
True Omni Dipole Array  
Single 4 Stack - 6dBd

True Omni-Directional Single Stack Array covering the 330-420MHz, 380-490MHz and 400-520 bands. Ideally suited to transmitter/receiver multi-coupling applications where wide bandwidths are required. The Single Stack offers 6dBd of gain on the horizon. Manufactured in Stainless Steel and has fully enclosed cabling. All welded construction. Available models with downtilt 3° and 6°.

- Full bandwidth
- Factory tuned, requires no further tuning
- Consistant gain in all directions
- 6dBd of gain
- All Stainless Steel construction
- All welded construction
- Internal cabling
- Single or duel end mounting



Optional brackets: **02813, 028131, 02814**

Part	Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
<b>02681R4</b>	330 - 420 MHz	Full Bandwidth Less than 1.5:1	6 ~ 8 dBd	500W	N socket	L: 2840mm W: 270mm	12kg
<b>02681V4</b>	380 - 490 MHz						
<b>02681Z4</b>	400 - 520 MHz						

Electrical Downtilt order detail

Suffix T3 for 3°, and T6 for 6°.

Alternative terminations

Suffix R for 7 - 16 DIN socket.

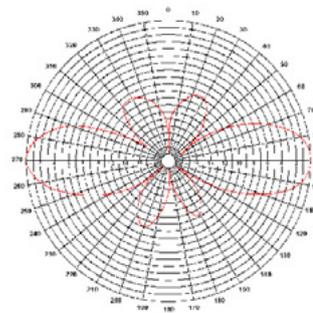
Suffix D for 4.3 - 10 DIN socket.

**02681x22**

**330 - 520 MHz  
True Omni Dipole Array  
Dual 2 Stack - 2 x 3dBd**

True Omni-Directional Dual Array covering the 330-420MHz, 380-490MHz and 400-520 bands. Ideally suited to transmitter/receiver multi-coupling applications where wide bandwidths are required. The Dual Array offers 2 x 3dBd of gain on the horizon. Manufactured in Stainless Steel and has fully enclosed cabling. All welded construction. Available models with downtilt 3° and 6°.

- Full bandwidth
- Factory tuned, requires no further tuning
- Consistant gain in all directions
- 2 x 3dBd of gain
- All Stainless Steel construction
- All welded construction
- Internal cabling
- Single or duel end mounting



*E Plane Radiation Pattern*



Site Antennas

Optional brackets: **02813, 028131, 02814**

Part	Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
<b>02681R22</b>	330 - 420 MHz	Full Bandwidth Less than 1.5:1	2 x 3 ~ 5 dBd	500W	2 x N socket	L: 3684mm W: 283mm	16kg
<b>02681V22</b>	380 - 490 MHz						
<b>02681Z22</b>	400 - 520 MHz						

Electrical Downtilt order detail  
Suffix T3 for 3°, and T6 for 6°.

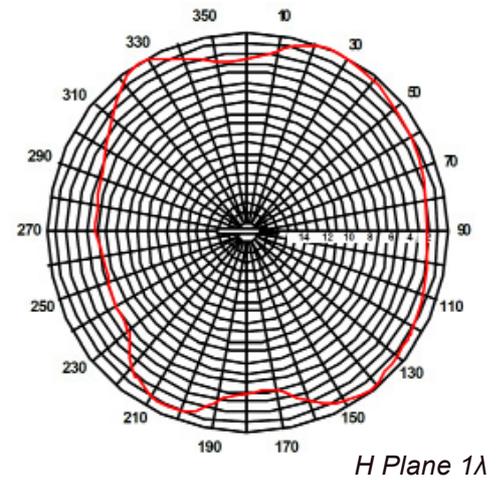
Alternative terminations  
Suffix R for 7 - 16 DIN socket.  
Suffix D for 4.3 - 10 DIN socket.

**02680A**
**UHF Folded Dipole, 360 - 520 MHz,  $1\lambda$  length**

The 02680A side mount dipole is a rugged broadband dipole for use in the band 360-520MHz band. It is an all welded and polished Stainless Steel construction, suited to all harsh environments. The antenna can be mounted in three configurations to allow for different shaped radiation patterns in the H plane, including  $\frac{1}{4}$ ,  $\frac{1}{2}$  and Full Wave length spacing from the vertical mounting pole.

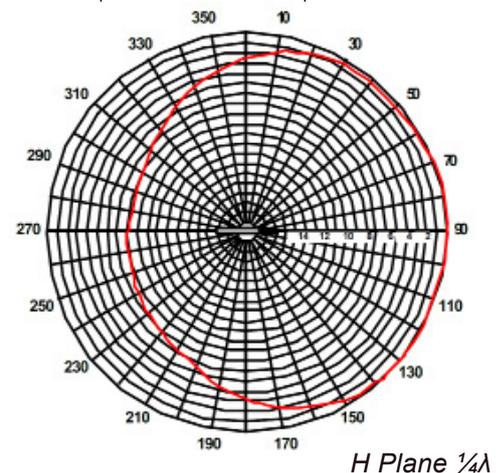
 Supplied bracket: **02815**

Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
360 - 520 MHz	Full Bandwidth Less than 1.5:1	0 ~ 2.5 dBd	500W	N plug	L: 820mm	1.5kg


**02680AS**
**UHF Folded Dipole, 360 - 520 MHz,  $\frac{1}{4}\lambda$  length**

 Supplied bracket: **02815**

Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
360 - 520 MHz	Full Bandwidth Less than 1.5:1	0 ~ 2.5 dBd	500W	N plug	L: 520mm	1.2kg

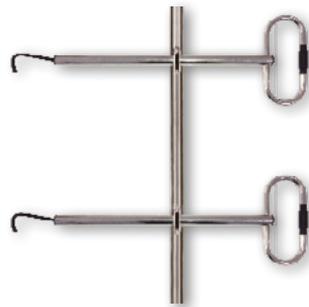


### 02680A2

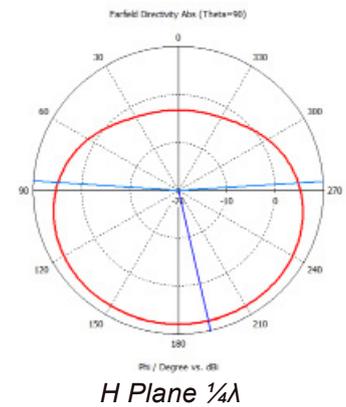
## UHF Offset Dipole Array 360 - 520 MHz

The 02680A2 2 Stack and 02680A4 4 Stack side mount dipole array are rugged broadband antenna for use in the 360-520MHz band. The dipoles are all welded and polished Stainless Steel construction, suited to all harsh environments. The array can be mounted in three configurations to allow for different shaped radiation patterns in the H plane, including 1/4, 1/2 and full wavelength spacing from the vertical mounting pole.

<b>Frequency</b>	360 - 520 MHz
<b>Tuned Bandwidth</b>	Full Bandwidth Less than 1.5:1
<b>Gain</b>	3 ~ 5.5 dBd
<b>RF Power Rating</b>	500W
<b>Termination</b>	N socket
<b>Dimensions</b>	L: 820mm H: 2500mm
<b>Weight</b>	7.2kg



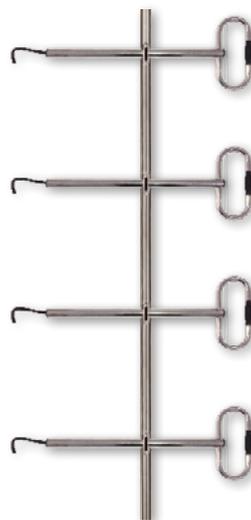
Dipole Mounting Brackets & Phasing Harness Supplied  
(mounting pole supplied by customer)



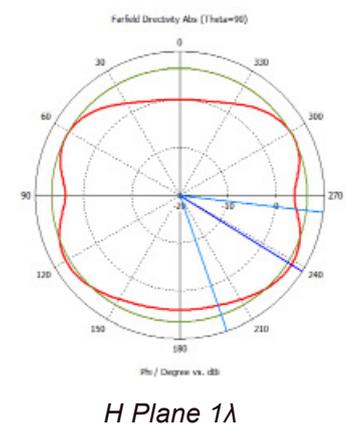
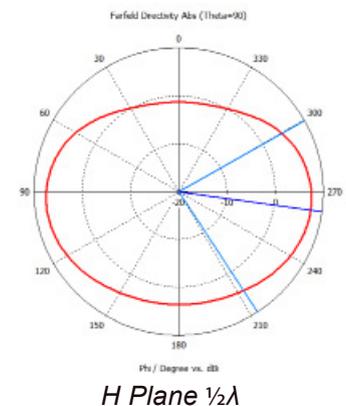
### 02680A4

## UHF Offset Dipole Array 360 - 520 MHz

<b>Frequency</b>	360 - 520 MHz
<b>Tuned Bandwidth</b>	Full Bandwidth Less than 1.5:1
<b>Gain</b>	6 ~ 8.5 dBd
<b>RF Power Rating</b>	500W
<b>Termination</b>	N socket
<b>Dimensions</b>	L: 820mm H: 5000mm
<b>Weight</b>	14.4kg



Dipole Mounting Brackets & Phasing Harness Supplied  
(mounting pole supplied by customer)

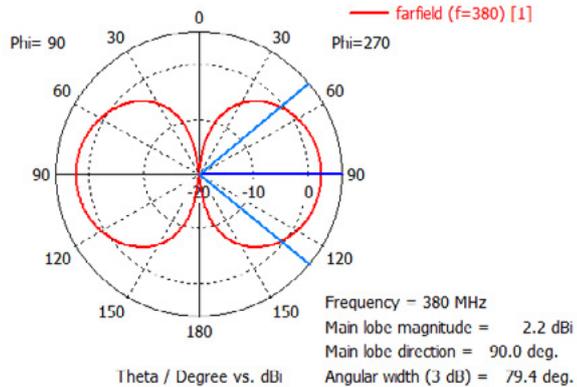


**02666B**

**UHF, 380 - 490 MHz  
Enclosed Dipole Stainless Base Tube**

The 02666B is a broadband UHF base antenna. It covers the entire band 380-490MHz. It comes with a Black heavy duty radome and has a short mounting tube allowing for pole mounting. It is also fitted with a socket thread for mounting to a variety of base mounts.

- Stainless steel fittings.
- Broad bandwidth.
- Black HD radome.
- Deck or Pole mounting



Optional Bracket: **02811S, 02813, 028131**

Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
380 - 490 MHz	<2.0:1	0 dBd	80W	N socket	L: 580mm OD: 38mm	2kg



**02644A**

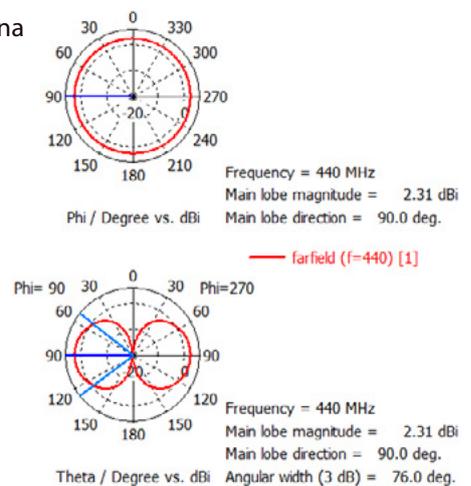
**UHF, 360 - 520 MHz  
2.5dBd Broadband Colinear**

The model 02644A is a medium gain base Station antenna covering the band 360-520MHz.

This antenna offers a stable radiation pattern across the entire band. The antenna is enclosed in a heavy-duty fiberglass radome and has a fixed N type socket connector.

- Fully enclosed in a heavy duty radome
- Fixed N connector

*Supplied with vertical member mounting bracket.*



Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
360 - 520 MHz	160MHz <1.5:1	0 ~ 2.5 dBd	500W	N socket	L: 500mm	3kg

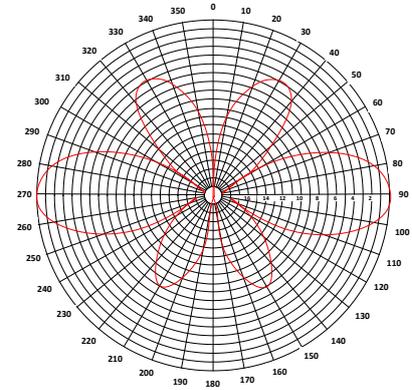


**02645**

**Colinear Simplex Base UHF, 380 - 520 MHz**

The 02645 antenna, is a 3dBd Gain, Base Station antenna covering the UHF Commercial Radio Band. Its medium gain affords better radio range coverage at lower angles than higher gain units. The 02645 antenna offers a stable radiation pattern with negligible horizontal pattern tilt. Its robust construction ensures excellent longevity and performance. Its smooth white radome presents an attractive profile.

- Durable robust construction
- Offers stable radiation pattern
- Smooth white radome
- Excellent Longevity and performance



Optional Bracket: **02811S, 02813, 028131**

*E Plane*

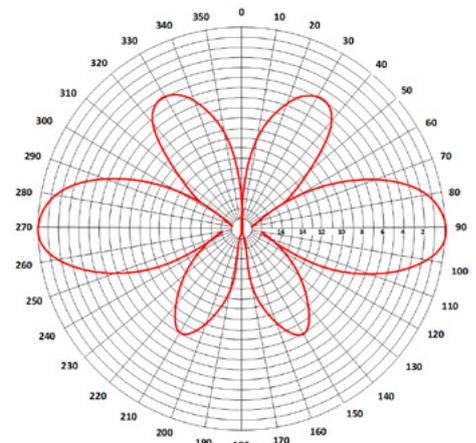
Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
380 - 520 MHz	1% <1.5:1	3 dBd	80W	N socket	L: 1300mm	1.5kg

**02645D**

**UHF, 315 - 520\* MHz  
3dBd Colinear Duplex Antenna**

The 02645D antenna is a 3dBd gain, Base Station antenna for the UHF Commercial Radio Band. The antenna offers a stable radiation pattern with negligible horizontal pattern tilt. Its robust construction ensures excellent longevity and performance. Its smooth white tapered radome presents an attractive profile.

- Factory Tuned at specified 3% segment (~10MHz)
- Fully enclosed in a heavy duty radome
- Stainless base tube
- Fixed N connector



Optional Bracket: **02811S, 02813, 028131**

*E Plane*

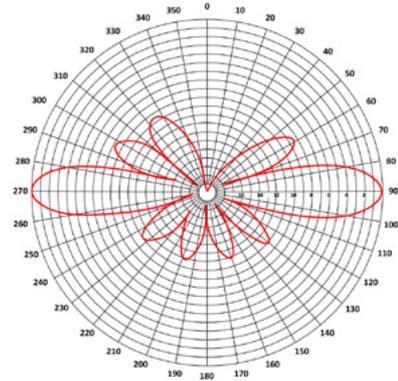
Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
315 - 520 MHz	3% <1.5:1	2 ~ 5 dBd	80W	N socket	L: 490mm	3kg

**02647**

**UHF, 380 - 520 MHz, 6dBd Colinear Simplex**

The 02647 antenna, is a 6dBd Gain, Base Station antenna covering the 380-520MHz Radio Band. It offers a stable radiation pattern with negligible horizontal pattern tilt. Its robust construction ensures excellent longevity and performance. This antenna must be ordered to frequency.

- Factory tuned at specified 1% segment.
- Omni directional
- White, Smooth, Glossy, Fibreglass Radome
- Stainless Steel mounting tube, Aluminium radiators
- DC grounding
- Mounting Tube OD: 32mm



*E Plane*

Optional Bracket: **02811S, 02813, 028131**

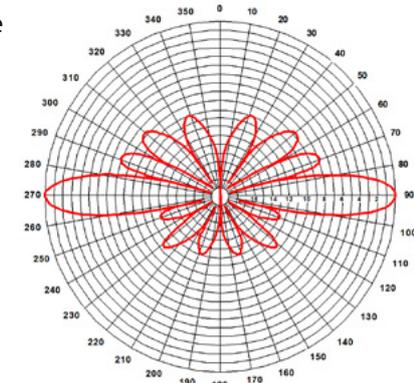
Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
380 - 520 MHz	1% <1.5:1	6 ~ 8.15 dBd	150W	N socket	L: 2850mm @ 400MHz	2kg

**02647D**

**UHF, 315 - 520 MHz, 6dBd Colinear Duplex**

The 02647D antenna is a 6 dBd gain, Base Station antenna covering the UHF Commercial Radio Band. Its high gain affords exceptional radio range coverage over distances not normally serviced by lower gain antennas. It offers a stable radiation pattern with negligible horizontal pattern tilt.

- Factory Tuned at specified 3% segment (~10MHz)
- Omni directional
- White, Smooth, Glossy, Fibreglass Radome
- Stainless Steel mounting tube, Aluminium radiators
- DC grounding
- Mounting Tube OD: 38mm



*E Plane*

Optional Bracket: **02811S, 02813, 028131**

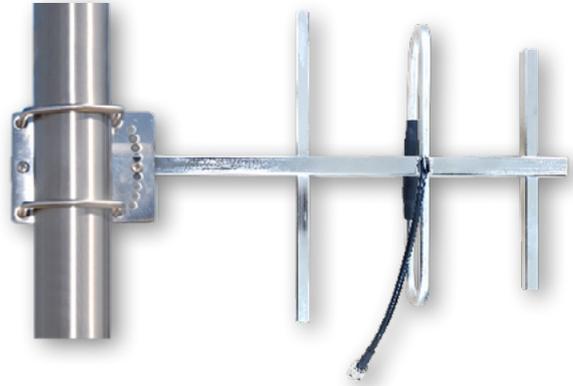
Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
315 - 520 MHz	10MHz <1.5:1	6 ~ 8.15 dBd	150W	N socket	L: 2670 ~ 3681mm	4.47kg

## Directional Antennas 325 - 600 MHz

02679

### UHF, 325 - 600 MHz, 5dBd 3-Element Yagi

The 02679 yagi is a 3 element UHF yagi for use in the band range of 325-600MHz. This antenna is frequency specific & set at manufacturing time with a bandwidth of 5%. It comes complete with an angle adjustment clamp allowing Vertical or Horizontal angle adjustment. The antenna is constructed of fully welded Stainless Steel for low intermodulation levels.



- Point to point applications.
- All stainless steel, fully welded construction.
- Angle adjustment clamp
- DC Grounding

Supplied Bracket: **Tilt Adjustable pole mount**

Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
325 -600 MHz	5% <1.5:1	6 ~ 8 dBd	150W	N socket	L: 617mm W: 400mm	1.8kg

02682

### UHF, 380 - 520 MHz, 9dBd 6-Element Yagi

The 02682 series antennas are 9.0 dB Gain, Stainless Steel Yagi antennas for use in the Commercial Radio Band. Their high gain affords exceptional radio link coverage. The all Stainless Steel construction is ideally suited for weather and corrosion resistance. The 02682 series offer stable radiation patterns across their respective bands.



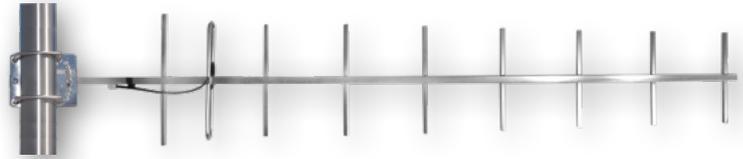
- Link coverage for the Commercial Radio Band
- All stainless steel, fully welded construction
- Adjustable mount  $\pm 19^\circ$  to the horizontal
- Durable, Weather & Corrosive resistance

Supplied Bracket: **Tilt Adjustable pole mount**

Part	Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
02682Q	380 - 400 MHz	Full Bandwidth Less than 1.5:1	9 dBd	150W	N socket	L: 1354mm	3.5kg
02682R	400 - 420 MHz					L: 1307mm	1.77kg
02682T	420 - 440 MHz					L: 1172mm	1.68kg
02682W	450 - 480 MHz					L: 1065mm	1.4kg
02682Z	480 - 520 MHz					L: 970mm	1.3kg

**02683**
**UHF, 380 - 510 MHz, 11/12dBd 9-Element Yagi**

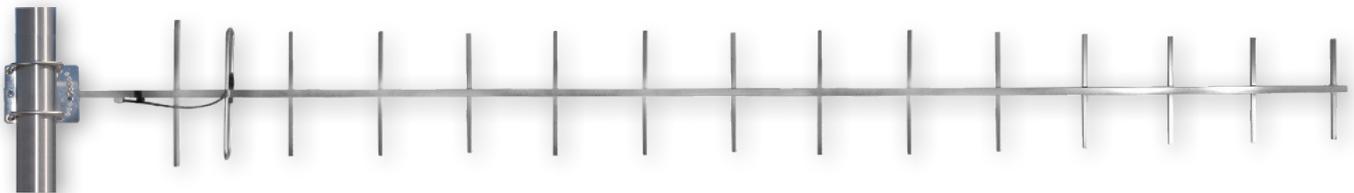
- Link coverage for the Commercial Radio Band
- All stainless steel, fully welded construction
- Adjustable mount  $\pm 20^\circ$  to the horizontal
- Durable, Weather & Corrosive resistance



Supplied Bracketed: **Tilt Adjustable pole mount\***

*\*Recommended to use with Environmental Support Brackets p26,27*

Part	Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
<b>02683Q</b>	370 - 400 MHz	Full Bandwidth Less than 1.5:1	11dBd	150W	N socket	L: 1895mm	3.55kg
<b>02683R</b>	400 - 420 MHz		11dBd			L: 1836mm	3.215kg
<b>02683T</b>	420 - 440 MHz		12dBd			L: 1941mm	3.29kg
<b>02683V</b>	450 - 470 MHz		12dBd			L: 1700mm	3.50kg
<b>02683X</b>	470 - 490 MHz		12dBd			L: 1560mm	3.35kg
<b>02683Y</b>	490 - 510 MHz		12dBd			L: 1507mm	3.27kg

**02684**
**UHF, 380 - 510 MHz, 12dBd 15-Element Yagi**


The model 02684 antenna is a 12dBd (14dBi) gain 15 element all Stainless Steel directional yagi antenna for use in the 380-510MHz radio band. Its robust construction ensures excellent longevity and performance. The all Stainless Steel construction is ideally suited for weather and corrosion resistance. All mechanical connections are welded for minimum inter-modulation levels. The antenna comes with its own mounting clamp. All electrical connections are directly soldered.

- High gain
- Stainless Steel construction
- Power splitter included
- Narrow beamwidth
- DC Grounding

Supplied Bracketed: **Tilt Adjustable pole mount\***

*\*Recommended to use with Environmental Support Brackets p26,27*

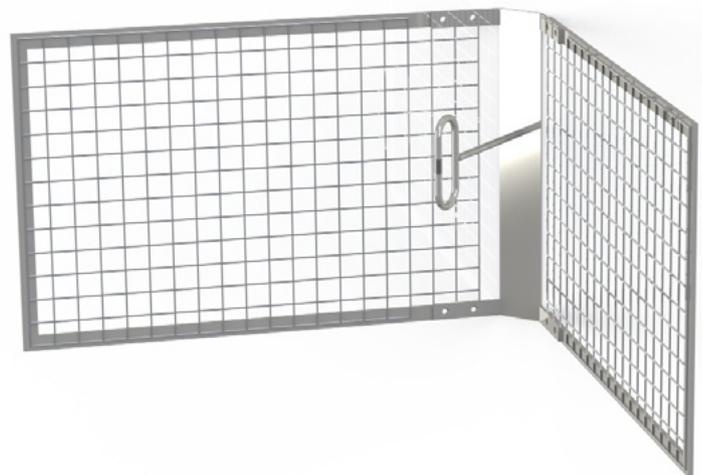
Part	Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
<b>02684Q</b>	380 - 400 MHz	Full Bandwidth Less than 1.5:1	12 ~ 14 dBd	150W	N socket	TBA	TBA
<b>02684R</b>	400 - 420 MHz					TBA	TBA
<b>02684V</b>	450 - 470 MHz					L: 2156mm	2.5kg
<b>02684X</b>	470 - 490 MHz					TBA	TBA
<b>02684Y</b>	490 - 510 MHz					TBA	TBA

**02688Q**

**UHF, 380 - 490 MHz, 9dBd 90° Corner Reflector**

The model 02688Q is a heavy duty 90 degree corner reflector antenna, ideally suited to applications where a high front to back ratio and forward gain are required. This antenna is ideal for reducing unwanted interference from other communication sites whilst maintaining a strong forward signal. The Stainless Steel construction is ideally suited to harsh environment locations. This antenna comes in a disassembled state and can be assembled on site.

- All Stainless Steel construction
- High forward gain
- High front to back ratio
- Rugged feed system
- Disassembles for ease of transport
- RG213 cable tail



Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
380 - 490 MHz	<1.6:1	9 ~ 11 dBd	500W	N socket	1.02 x 1.02 x 0.67m	12kg

## Environmental Yagi Supports

**028361**

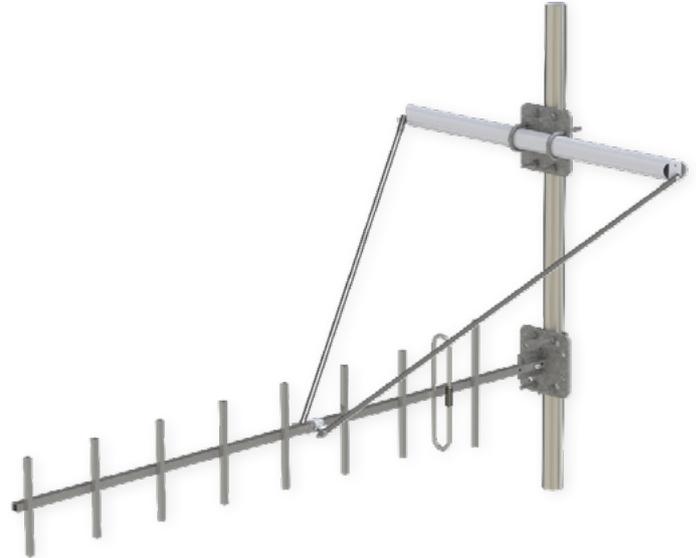
### Single Yagi Support Kit - High Wind Areas

For both Benelec  
02683 UHF 9 Element Yagi's and  
02684 UHF 15 Element Yagi's.

Single Bay Mounting configuration

Suitable for Vertical or Horizontal mounted Yagi's  
Recommended for wind environments that exceed ~80  
Km/Hr

Mounting Pole Diameter Size: 50mm  
Construction Material: GAL Steel brackets, Fiberglass  
support rods, Stainless Hardware.



Vertical Polarisation Configuration



Horizontal Polarisation Configuration

028362

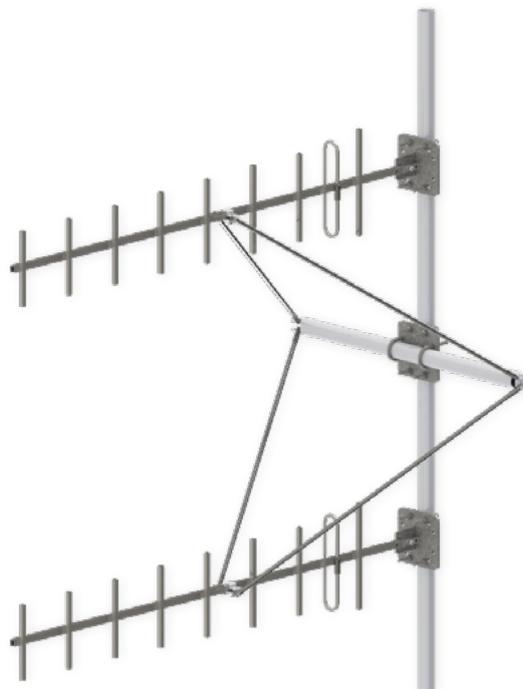
## Dual Yagi Support Kit - High Wind Areas

For both Benelec  
02683 UHF 9 Element Yagi's and  
02684 UHF 15 Element Yagi's.

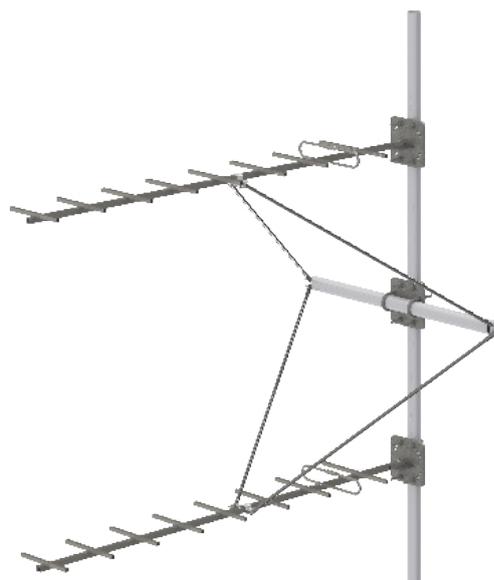
Dual Bay Mounting configuration

Suitable for Vertical or Horizontal mounted Yagi's  
Recommended for wind environments that exceed ~80  
Km/Hr

Mounting Pole Diameter Size: 50mm  
Construction Material: GAL Steel brackets, Fiberglass  
support rods, Stainless Hardware.



Vertical Polarisation Configuration



Horizontal Polarisation Configuration

## UHF 800MHz Link Base Antennas

024681	Fiberglass Colinear 758-870MHz 6dBd
02482	Yagi 790-905 9dBd 6 Element
024821	Yagi 750-870MHz 9dBd 6 Element
02484	Yagi 780-930MHz 12dBd 15 Element
024841	Yagi 750-870MHz 12dBd 15 Element
024842	Yagi 800-896MHz 15dBd/17dBi Dual Bay Array 15 Element
024872	Yagi 804-854MHz 17dBd/19dBi Dual Bay Array 18 Element
0248104U	mWave 1.2m Grid 790-875MHz 18.1dBi Universal Mount
0248106S	mWave 1.8m Grid 790-875MHz 21.5dBi Standard Mount

## Broadband Antennas

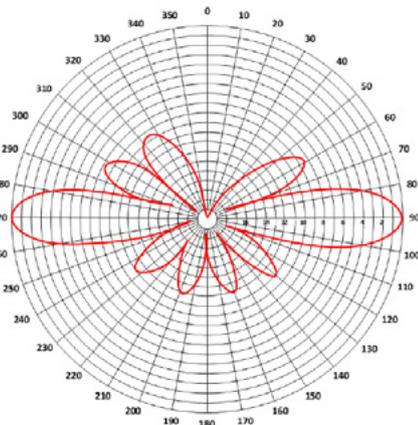
02211	VHF Discone 30-140MHz
02686	UHF Discone 200-520 MHz
02674	Discone 8 x 8 Element Heavy Duty Polished Stainless 65-1300MHz Ns
02675	Discone 6 x 6 Element 50-1000MHz UHF
02676	Discone 12x12 Element 50-1000MHz UHF

**024681**

**UHF, 758 - 870 MHz  
6dBd Fiberglass Colinear**

The 024681 antenna, is a 6-8dBd Gain, Base Station antenna covering the 758-870MHz Radio Band. It offers a stable radiation pattern with negligible horizontal pattern tilt. Its robust construction ensures excellent longevity and performance.

- White, Smooth, Glossy, Fibreglass Radome
- Stainless Steel, mounting tube
- Aluminium radiators
- DC grounding



*E Plane*

Optional Bracket: **02811S, 02813, 028131**

Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
758 - 870 MHz	<1.5:1	6 ~ 8 dBd	150W	N socket	L: 1200mm	0.9kg

**02482**

**UHF, 750 - 905 MHz  
9dBd 6-Element Yagi**

- Stainless Steel mounting boom & bracket
- Folded Stainless Steel Dipole
- Solid Stainless Steel passive elements
- Rugged Construction



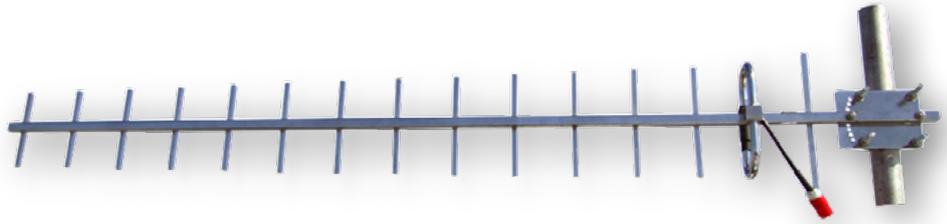
The 02482 antenna is an 9dBd Gain, Stainless Steel Yagi antenna for use in the linking band. Its high gain affords exceptional radio link coverage. The 02482 antenna offers a stable radiation pattern across the whole band 790-905 MHz. Its robust construction ensures excellent longevity and performance. The all Stainless Steel construction is ideally suited for weather and corrosion resistance. All mechanical connections are welded for minimum inter-modulation levels. All electrical connectors are directly soldered.

Part	Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
<b>02482</b>	790 - 905 MHz	<1.5:1	9 dBd	100W	N socket	L: 609mm W: 176mm	0.84kg
<b>024821</b>	750 - 870 MHz	<1.5:1	9 dBd	100W	N socket	TBA	TBA

02484

UHF, 750 - 930 MHz 12dBd 15-Element Yagi

- All welded Stainless Steel Construction
- Electro polished for significantly improved corrosion resistance
- Integrated Mounting Bracket
- Vertical tilt adjustment  $\pm 20^\circ$
- Durable

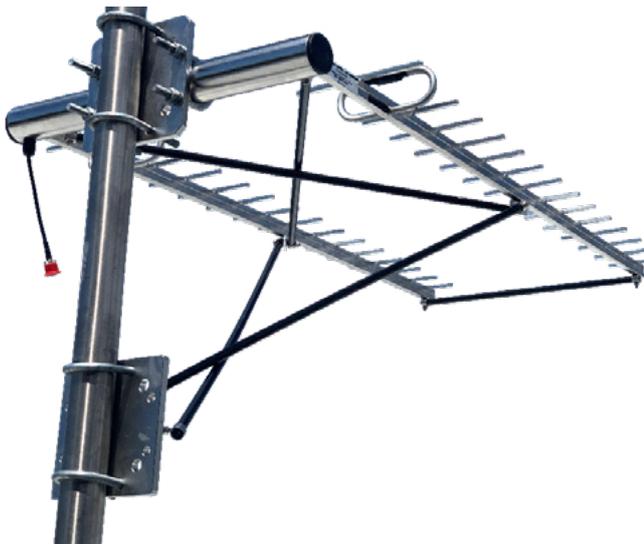


The 02484 antenna is a 12dBd (14dBi) Gain, Stainless Steel Yagi antenna for use in the 800-896MHz Radio Band. Its high gain affords exceptional radio link coverage. The 02484 antenna offers a stable radiation Pattern across the whole band 800-896MHz. Its robust construction ensures excellent longevity and Performance. The all Stainless Steel construction is ideally suited for weather and corrosion resistance.

Part	Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
02484	780 - 930 MHz	150MHz	12 ~ 14 dBd	150W	N socket	L: 1274mm	1.4kg
024841	750 - 870 MHz	120MHz	12 ~ 14 dBd	150W	N socket	L: 2156mm	2.5kg

024842

UHF, 800 - 896 MHz 15dBd 15-Element Dual Stack Yagi Array



The 024842 yagi antenna is a 15dBd Gain 15 element all Stainless Steel two stack directional yagi antenna array for use in the 800-896MHz radio band. Its gain affords excellent radio link coverage.

Its robust construction ensures excellent longevity and performance. The all Stainless Steel construction is ideally suited for weather and corrosion resistance. All mechanical connections are welded for minimum inter-modulation levels. All electrical connections are directly soldered.

- Internally Cabled Phasing Harness
- Full band coverage
- Low VSWR across band
- All Stainless Steel , All welded construction

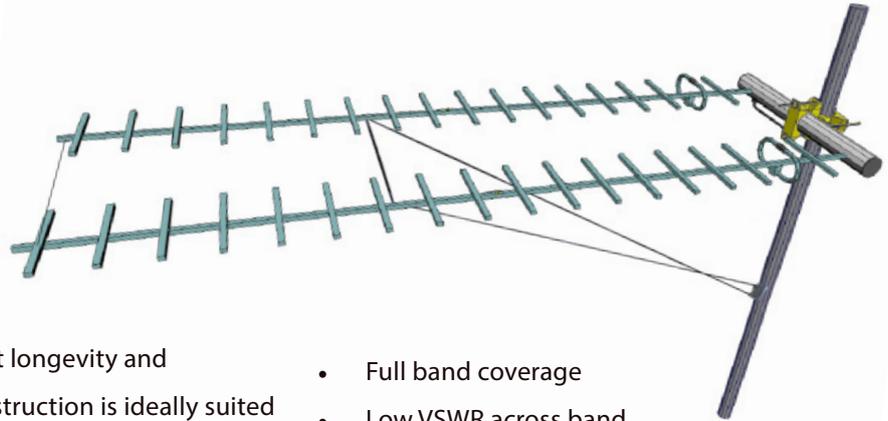
Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
800 - 896 MHz	<1.6:1	15 ~ 17 dBd	100W	N socket	L: 1156mm W: 700mm	12kg

**024872**

**UHF, 804 - 854 MHz  
17dBd 18-Element Dual Stack Yagi Array**

The 024872 yagi antenna is a 17dBd Gain 18 element all Stainless Steel two stack directional yagi antenna array for use in the 804-854MHz radio band. Its gain affords excellent radio link coverage.

Its robust construction ensures excellent longevity and performance. The all Stainless Steel construction is ideally suited for weather and corrosion resistance. All mechanical connections are welded for minimum inter-modulation levels. All electrical connections are directly soldered.



- Full band coverage
- Low VSWR across band
- All welded construction
- Bracing Kit
- Internally Cabled Phasing Harness

Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
804 - 854 MHz	<1.5:1	17 ~ 19 dBd	200W	N socket	L: 1900mm W: 1000mm	7kg

**0248104U**

**18.1dBi, 790-875 MHz  
1.2m Parabolic Grid, LP**

Point-To-Point coverage for the Australian 800 MHz linking Radio Band. Universal Mount. Linearly Polarised.

**0248106S**

**21.5dBi, 790-875 MHz  
1.8m Parabolic Grid, LP**

Point-To-Point coverage for the Australian 800 MHz linking Radio Band. Standard Mount. Linearly Polarised.



*Note: Grids in 2.4m, 3.0m, 3.7m, and 4.6m available on Request.*

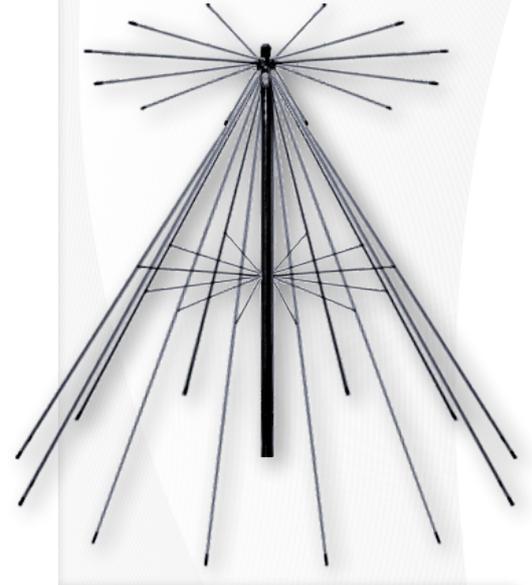
Part	Frequency	Tuned Bandwidth	Gain (dBi)	RF Power Rating	Termination	Dimensions	Weight
<b>0248104U</b>	790-875 MHz	85MHz <1.5:1	17.6(low), 18.1(mid), 18.5(high)	200W Continuous	N socket	L: 1220mm	37.7kg
<b>0248106S</b>			21.0(low), 21.5(mid), 21.9(high)			L: 1830mm	80.8kg

Site Antennas

**02211**

## Broadband, 30 - 140 MHz Military Discone Base Station

The 02211 Military Discone Antenna is a broad frequency antenna suited to applications across the frequency range 30-140 MHz (Transmit). Its stable radiation pattern across the 30-140 MHz band allows for accurate performance. Robust construction of both the central feed section and matching radials makes for a reliable tactical antenna. This antenna comes with a bracing kit to strengthen the cone.


 Optional Bracket: **02811S, 02813, 028131**

Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
30 - 140 MHz	2.0:1		800W Average	N socket	L: 2700mm W: 3066mm	12kg

**02686**

## Broadband, 200 - 520 MHz Discone Base Station

The 02686 Discone Antenna is a broad frequency antenna suited to Military applications across the frequency range 200-520 MHz. It offers a stable radiation pattern and low VSWR response across the entire 200-520 MHz band. The antenna offers a Stainless Steel central feed section and radiators, making it a reliable robust unit.


 Optional Bracket: **02811S, 02813, 028131**

Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
200 - 520 MHz	<1.7:1	0 dBd	240W	N socket	L: 587mm	3kg

02674

Broadband, 65 - 1300 MHz  
Discone 8 x 8 Element

The 02674 is a receive Antenna, for use across the 65-1300MHz Radio Band. It can also be used as a transmit antenna in selected bands, as outlined in the table below. It is manufactured with removable Stainless Steel radials, making it suitable to applications where rapid deployment is required. It can also be used satisfactorily for permanent installation. Heavy Duty stainless steel construction will lead to long term reliable service by this antenna.



Optional Bracket: **02811S, 02813, 028131**

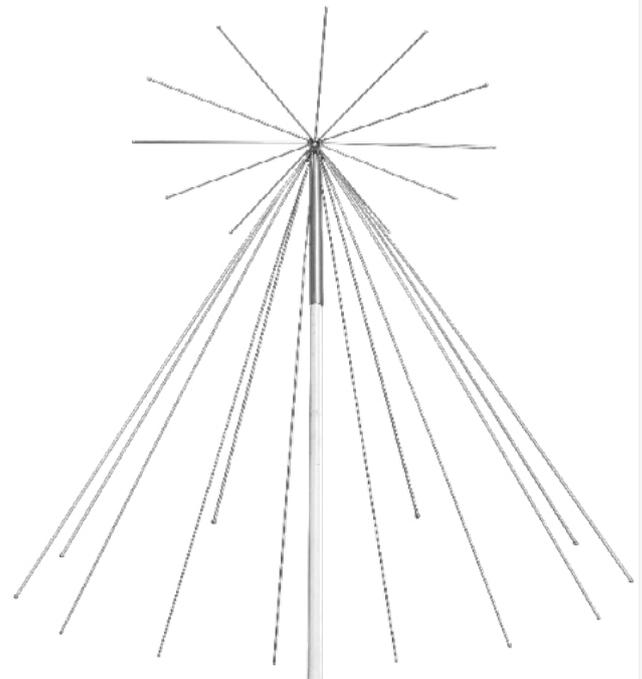
Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
65 - 1300 MHz	varies	-15 ~ 0 dBd	240W	N socket	L: 2087mm W: 1133mm	4.1kg

02676

Broadband, 60 - 1000 MHz  
Discone 12 x 12 Element

The 02676 is a Rx only discone antenna operating across the 60-1000MHz Radio Band. With twelve elements instead of six, it offers better VSWR and radiation pattern performance than the 02675 antenna. The lightweight construction makes it ideal for simple installations, and at the same time affords a low wind loading resistance. It is manufactured with removable stainless steel radials, making it suitable to applications where rapid deployment is required. It can also be used satisfactorily for permanent installation.

- Radio reception in all Commercial 60-1000MHz Radio Bands.
- Wide bandwidth
- Rugged construction
- Removable Radiating elements



Optional Bracket: **02811S, 02813, 028131**

Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
50 - 1000 MHz	varies	-10 ~ 0 dBd	100W	N socket	L: 950mm Dia: 1150mm	1.3kg

# Cellular Antennas

## Omni-Directional 4G & 5G

024512	5G Ultra Slim Indoor Ceiling Antenna
024512M	2 x 5G Ultra Slim Indoor Ceiling Antenna
024513	5G + WiFi Ultra Slim Indoor Ceiling Antenna
024513M	2 x 5G + WiFi Ultra Slim Indoor Ceiling Antenna
024581M	4G Magnetic 1/4 Wave Indoor Antenna with Metal Plate
024571G	4G Adhesive Dipole Indoor Antenna
024575B	5G Multi-band Cellular Outdoor Antenna Stud Mount Ns
024575BS	5G Multi-band Cellular Outdoor Antenna with 6m LL195 Cable SMAp
024563	5G Low Profile Panel Mount Outdoor Antenna
024584	5G Cellular Dipole Outdoor Antenna

## Directional 4G & 5G

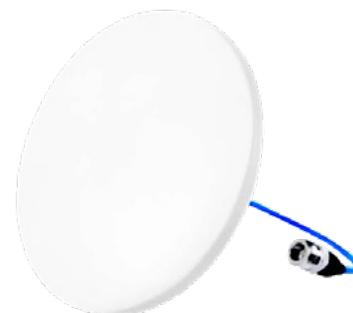
02492	5G Indoor Panel Wall Mount with Mounting Pole Bracket
02492M	5G Indoor Panel MiMo with Mounting Pole Bracket
02484E3	4G Base Log Yagi with Pole Mounting Bracket - 4 Rotation Angle Positions
02485	5G Shrouded Base Log Yagi with Mounting Pole Bracket
02487	4G (610 - 960MHz) Parabolic Grid Antenna

## Omni-Directional Cellular Antennas

### 024512

### 5G Ultra Slim Indoor Ceiling Antenna

The model 024512 is an economically priced, compact, gain antenna suited for use in the bands 698-960 & ~1710-2700 & 3500-3800MHz. It comes standard with N socket on coax tail & is designed to be mounted in a non-metallic ceiling. It is small, unobtrusive & designed to be Low PIM, Low VSWR and DC Grounded. Corrosion resistance and anti-aging. DC Grounded.



Gain	RF Power Rating	Termination	Dimensions	Weight
2 ~ 4 dBi	50W	Low Loss Cable tail, N socket	φ 160x17.5mm	200g

### 024512M

### 2 x 5G Ultra Slim Indoor Ceiling Antenna

The model 024512M is an economically priced, compact, gain antenna suited for use in the bands 698-960 & ~1710-2700 & 3500-3800MHz. It comes with 2 x N Sockets on coax tails & is designed to be mounted in a non-metallic ceiling. It is small, unobtrusive & designed to be Low PIM, Low VSWR and DC Grounded. Anti-ultraviolet ABS radome. DC Grounded.

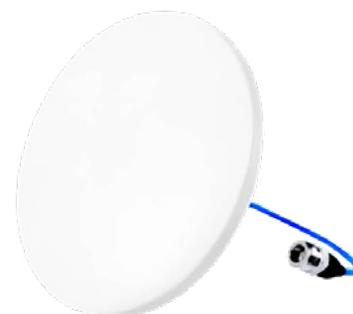


Gain	RF Power Rating	Termination	Dimensions	Weight
2.5 ~ 4 dBi	50W	2 x Low Loss Cable tail, 2 x N socket	φ 266x18mm	500g

### 024513

### 5G + WiFi Ultra Slim Indoor Ceiling Antenna

The model 024513 is an economically priced, compact, gain antenna suited for use in the bands 698-960 & ~1710-6000MHz. It comes standard with N socket on coax tail & is designed to be mounted in a non-metallic ceiling. It is small, unobtrusive & designed to be Low PIM, Low VSWR and DC Grounded.



Gain	RF Power Rating	Termination	Dimensions	Weight
4.6 ~ 6.3 dBi	50W	Low Loss Cable tail, N socket	φ 213x18.5mm	260g

**024513M**
**2 x 5G + WiFi Ultra Slim Indoor Ceiling Antenna**

The model 024513 is an economically priced, compact, gain antenna suited for use in the bands 698-960 & ~1710-6000MHz. It comes with 2 x N Sockets on coax tail & is designed to be mounted in a non-metallic ceiling. It is small, unobtrusive & designed to be Low PIM, Low VSWR and DC Grounded.



Gain	RF Power Rating	Termination	Dimensions	Weight
2.5 ~ 4 dBi	50W	2 x Low Loss Cable tail, 2 x N socket	φ 266x18mm	500g

**024581M**
**4G Magnetic 1/4 Wave Indoor Antenna with Metal Plate**

The 024581M is an economically priced, compact, unity gain 4G antenna suited for use in the bands 690-1800 MHz. This antenna is optimised for the narrower transmit bands for the Telstra network. It comes standard with 1 metre of low loss cable terminating in an SMA male connector & is suited for mounting onto many telemetry boxes. This antenna is magnetically fixed to steel. The 024581M comes with stick on ground plane for mounting to non-ferrous materials.



Gain	RF Power Rating	Termination	Dimensions	Weight
3 dBi	5W	SMA plug	L: 109mm	40g

**024571G**
**4G Adhesive Dipole Indoor Antenna**

The 024571G is an economically priced, compact, medium gain 4G antenna suited for use in the bands 690-960 & 1710-2700 MHz. This antenna is optimised for the narrower transmit bands for the Telstra network. It comes standard with 1.5 metres of low loss cable terminating in an SMA male connector & is suited for mounting onto a wall bracket.

This antenna can be used inside or outside, in fixed applications. The 024571G is decoupled from the feed cable and offers a clean radiation pattern at all frequencies.



Gain	RF Power Rating	Termination	Dimensions	Weight
4 dBi	5W	SMA plug	L: 121mm	160g

**024575B**

**5G Multi-band Cellular Outdoor Antenna Stud Mount Ns**

The 024575B antenna is a 5G multi-band base antenna intended for use in the bands 690-960MHz & 1710-6000MHz. The 024574B antenna does away with the need for many separate antennas whilst maintaining high gain across the band 690-960MHz. It comes with an N socket termination. The antenna is light weight, fitted to a stainless-steel stud in a black radome.

Gain	RF Power Rating	Termination	Dimensions	Weight
3 & 6 dBi		N socket	L: 890mm	300g

**024575BS**

**5G Multi-band Cellular Outdoor Antenna with 6m LL195 Cable SMAp**

The 024575BS antenna is a 5G multi-band antenna intended for use in the bands 690-960MHz and 1710-6000MHz. The 024575BS antenna does away with the need for many separate antennas whilst maintaining high gain across the band 690-960MHz. The antenna utilizes a low loss cable lead directly attached to the antenna which allows for ease of installation.

The antenna is lightweight.

Gain	RF Power Rating	Termination	Dimensions	Weight
3 & 6 dBi		6m x LL195, SMA plug	L: 812mm	300g



**024563**

**5G Low Profile Panel Mount Outdoor Antenna**

The 024563 is an economically priced, compact, unity gain 5G antenna suited for use in the bands 695-960, 1710-2700 & 3500-3800 MHz. It comes standard with 2metres of low loss cable terminating in an SMA plug connector and is suited for mounting onto telemetry boxes. Comes with "L" Bracket.

This antenna is mounted to supplied bracket or through a 16mm hole in equipment.

Gain	RF Power Rating	Termination	Dimensions	Weight
3 dBi	5W	2m x LL195, SMA plug	77 x 41 mm	160g



024584

### 5G Cellular Dipole Outdoor Antenna

The 024584 is an economically priced, compact, unity gain 5G antenna suited for use in the bands 690-960, 1710-2700 & 3575-3700 MHz. It comes standard with 3 meters of low loss cable terminating in an SMA male connector & is suited for mounting onto a wall bracket. This antenna can be used inside or outside, in fixed applications. The 024584 is decoupled from the feed cable and offers a clean radiation pattern at all frequencies.



Gain	RF Power Rating	Termination	Dimensions	Weight
1.8 - 4.7 dBi	5W	3m x LL195, SMA plug	L: 186mm	200g

Site Antennas

## Directional Cellular Antennas

02492

### 5G Indoor Panel Wall Mount with Mounting Pole Bracket



The 02492 Wall Mount Antenna is for indoor distribution. It is compact and lightweight and features a Wide Bandwidth and an Anti-ultraviolet ABS radome. High Gain, Low PIM, Low VSWR.

Gain	RF Power Rating	Termination	Dimensions	Weight
5.5 - 8.5 dBi	50W	N socket	180x170x60mm	400g

02492M

### 5G Indoor Panel MiMo with Mounting Pole Bracket

The 02492 Wall Mount Antenna is for indoor distribution. Suited for use in the 698-960 & 1710-2700MHz Band. It is compact and lightweight and features a Wide Bandwidth and an Anti-ultraviolet ABS radome. High Gain, Low PIM, Low VSWR.



Gain	RF Power Rating	Termination	Dimensions	Weight
5.5 - 8.5 dBi	50W	N socket	180x170x60mm	400g

**02484E3**

**4G Base Log Yagi with Pole Mounting Bracket - 4 Rotation Angle Positions**

The 024584E3 is full band 4G directional hi-gain 12dBi antenna. This antenna can ideally be used for fringe areas for network access for repeater systems and cellular B2B routers and modems. The antenna is a welded aluminium construction with a black powder coat finish, providing reliable long-term performance. The supplied bracket can be rotated through 45 degree increments to allow a range of polarisation options.



Gain	RF Power Rating	Termination	Dimensions	Weight
12 dBi	25W	N socket	L: 1170mm	1.6kg

**02485**

**5G Shrouded Base Log Yagi with Mounting Pole Bracket**

The 024584E3 is full band 5G directional hi-gain 9.5dBi antenna. This antenna can ideally be used for fringe areas for network access for repeater systems and cellular B2B routers and modems. The shrouded radome provides protections in difficult environments such as snow and ice.



Gain	RF Power Rating	Termination	Dimensions	Weight
9.5 dBi	50W	N socket	405x210x65mm	1.2kg

**02487**

**4G (610 - 960MHz) Parabolic Grid Antenna**

The 02487 Parabolic Grid Antenna is designed to provide maximum gain within the 4G (610 - 960MHz) band. Ideal for areas with very low or noisy signal to maximise the input signal for cellular frequencies. Due to the narrow beamwidth, this antenna can also be used in areas where multiple cell sites are present and isolating a single tower is required.



Gain	RF Power Rating	Termination	Dimensions	Weight
20 dBi	50W	N socket	1500x1500x560mm	15kg

## Antenna Hardware

### Base Antenna Hardware

02728	Mirror/Bar Bracket Universal Stainless Steel
027281	Wall Bracket 240mm long 16mm hole 3mm Stainless Steel
02729	Wall Mounting Bracket 100mm Stainless Steel
027291	Wall Mounting Bracket 50mm Stainless Steel
028105	Base Antenna Bracket Perpendicular Mounting 50/40mm Stainless Steel
02811	ZPS Base Antenna Bracket Parallel Mounting 90/60mm
02811S	Bracket Base Antenna Parallel Mounting 90/60mm Stainless Steel
02812	Bracket Base Antenna Perpendicular HD GAL 90/20mm
02813	Bracket Base Antenna Parallel HD GAL 90/20mm
028131	Bracket Base Antenna Heavy Duty Perpendicular GAL 90/20mm
02814	Bracket Base Antenna Universal HD Stainless Steel 100/60mm
02815	Bracket Base Antenna Universal HD 60/60/20mm
028181	Base Small Straddle Clamp (Mueller) 50-16 (40-90mm ang)
028182	Base Large Straddle Clamp (Mueller) 50-20 (75-200mm ang)

### Antenna Site Mounts

21110120	J-Pole Galvanised 1.2m facia mount
21110150	J-Pole Galvanised 1.5m facia mount
21110180	J-Pole Galvanised 1.8m facia mount
21110270	J-Pole Galvanised 2.7m facia mount
21111100	J-Pole Galvanised Support Kit
21120501	Stramit Clip Lock Roof Mount
21120502	Metal Roof Mount
21120503	Universal Tripodl Roof Mount
02816	Wall Mount GAL Steel 140x160x300mm - Certified
028171	Concrete Pole Mount Chain
028172	Steel or Timber Pole Mount
028186	Tower Angle Leg Mount
028187	Tower Face mount 76 CHS Frame Angled leg
028188	Tower leg Mount Circular Hollow Section
028189	6° Tower Angled Leg Mount
028160	Flat Mount Wall or Roof top Vertical stand off 1m x 50mm Dia Mast Polished Stainless Steel
028191	Flat Mount GAL Steel 340x340mm base x 1m x 76mm Mast
2113a07CS	Mounting Pole 50mm Dia x 2mm wall x 6m Stainless Steel
2113b07CS	Mounting Pole 50mm Dia x 3mm wall x 6m Stainless Steel
21130240G	Galvanised Antenna Mounting Pole 2.4m
21130310G	Galvanised Antenna Mounting Pole 3.05m
210010	Cable Drum Support Stand
843101	Dektite Rubber Water Seal Cable Entry
B1A26T83S	Stainless Steel Hose Clamp 40 - 64mm

## Base Antenna Hardware

02728

### Mirror/Bar Bracket Stainless Steel

**Application:** Base station and Mobile  
**Materials:** Polished Stainless Steel  
**Mounting:** Universal  
**Size:** 16mm hole, 5mm gap  
**Pole OD:** 8 to 30mm



Vertical



Horizontal

027281

### Wall Bracket Stainless Steel

<b>Applications:</b> Wall Mounting	<b>Width:</b> 30mm
<b>Materials:</b> Stainless Steel	<b>Thickness:</b> 3mm
<b>Hole size:</b> 16.5mm	<b>Slot Width:</b> 5mm
<b>Length:</b> 242mm	<b>Weight:</b> 220g
<b>Height:</b> 89mm	



02729

### Wall Mounting Bracket 100mm Stainless Steel

<b>Application:</b> Wall and Roof, light-weight antenna, base and leads	
<b>Materials:</b> Polished Stainless Steel	
<b>Hole Size:</b> 16mm	
<b>Dimensions:</b> 80(L) x 32(W) x 45(H)mm	<b>Screw:</b> 3 x 5mm hole
<b>Thickness:</b> 2mm	<b>Weight:</b> 64g



027291

### Mirror Bracket Stainless Steel

<b>Application:</b> Wall and Roof, light-weight antenna, base and leads	
<b>Materials:</b> Polished Stainless Steel	
<b>Hole Size:</b> 16mm	
<b>Dimensions:</b> 80(L) x 32(W) x 45(H)mm	<b>Screw:</b> 3 x 5mm hole
<b>Thickness:</b> 2mm	<b>Weight:</b> 64g



028105

Base Station Right Angle Bracket Stainless Steel

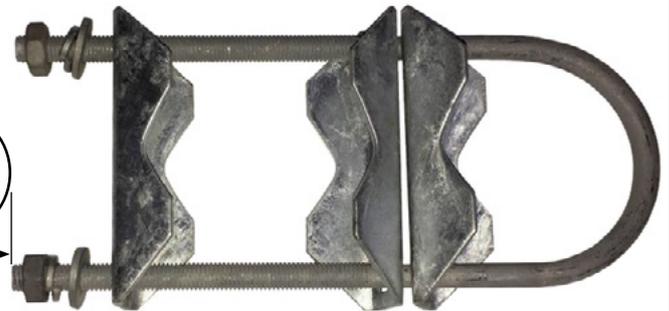
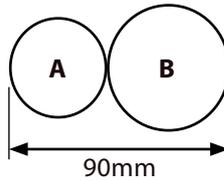
- Application:** Base station
- Materials:** Stainless Steel
- Mounting:** Right Angle
- Size:** 16mm hole, 5mm gap
- Pole OD:** 20 to 60mm
- Antenna Boom OD:** 20 to 45mm
- Weight:** 425g



02811

Base Antenna Bracket Parallel Mounting GAL

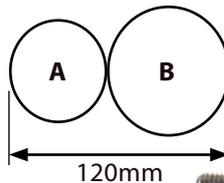
- Application:** Base Station
- Materials:** Galvanised Steel
- Mounting:** Parallel
- Pole OD:** 20 to 60mm
- Antenna Boom OD:** 20 to 60mm
- Total OD 2 Poles:** 90mm max
- Weight:** 300g



028115

Base Antenna Parallel Bracket Stainless Steel

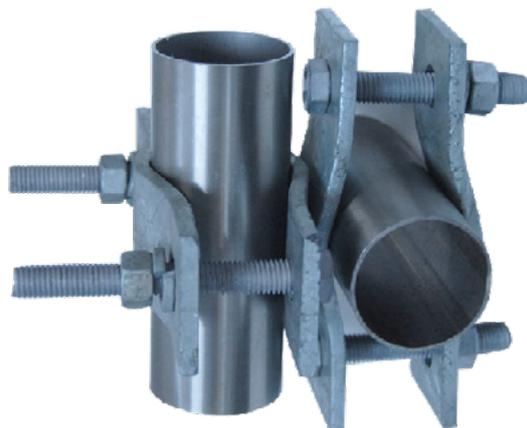
- Application:** Base Station
- Materials:** Stainless Steel
- Mounting:** Parallel
- Pole OD:** 25 to 60mm
- Antenna Boom OD:** 20 to 60mm
- Total OD 2 Poles:** 120mm max
- Weight:** 320g



02812

Heavy Duty Right Angle Bracket GAL

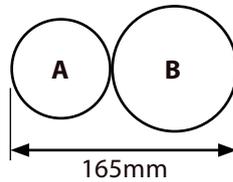
- Application:** Base Station
- Materials:** Galvanised Steel
- Mounting:** Right Angle
- Pole OD:** 20 to 90mm
- Antenna Boom OD:** 20 to 90mm
- Total OD 2 Poles:** 90mm max
- Weight:** 1.9kg



02813

Heavy Duty Parallel Bracket GAL

- Application:** Base Station
- Materials:** Galvanised Steel
- Mounting:** Parallel
- Pole OD:** 20 to 90mm
- Antenna Boom OD:** 20 to 90mm
- Total OD 2 Poles:** 165mm max



028131

Universal Heavy Duty Bracket GAL

- Application:** Base Station
- Materials:** Galvanised Steel
- Mounting:** Universal  
(Parallel and right angle)
- Pole OD:** 20 to 90mm
- Weight:** 3.9kg



Parallel



Right Angle

02814

Universal Heavy Duty Bracket Stainless Steel

- Application:** Base Station
- Materials:** Stainless Steel
- Mounting:** Universal  
(Parallel and right angle)
- Pole OD:** 32 to 110mm
- Antenna Boom OD:** 43 to 62mm
- Weight:** 2.9kg



Parallel



Right Angle

02815

Universal Heavy Duty Bracket Stainless Steel

- Application:** Base Station
- Materials:** Stainless Steel
- Mounting:** Universal  
(Parallel and right angle)
- Pole OD:** 50 to 60mm
- Weight:** 1.1kg



Parallel

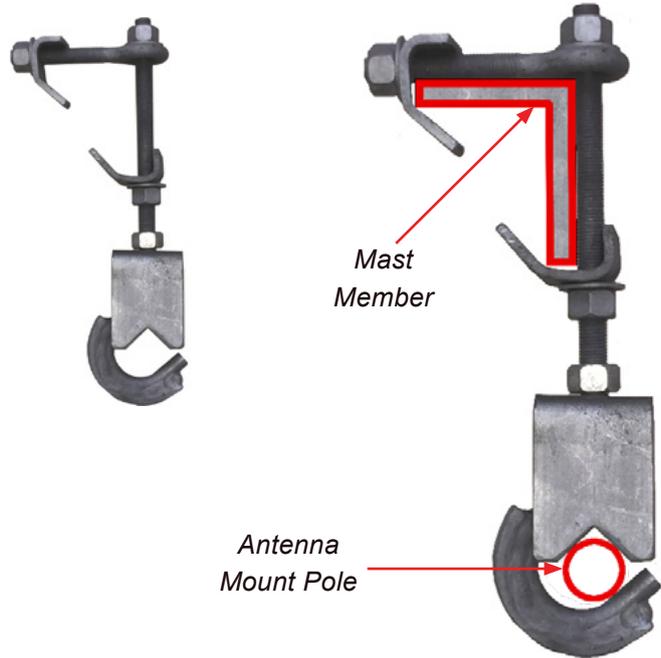


Right Angle

028181

Base Small Straddle Clamp 50-16 (Mueller)

- Application:** Base station mast member
- Materials:** Galvanised Steel
- Mounting:** Horizontal or vertical
- Mast member size:** 40 to 90mm
- Arm Length:** 120mm
- Max load:** 20kg on 40mm mast member
- Weight:** 2.5kg

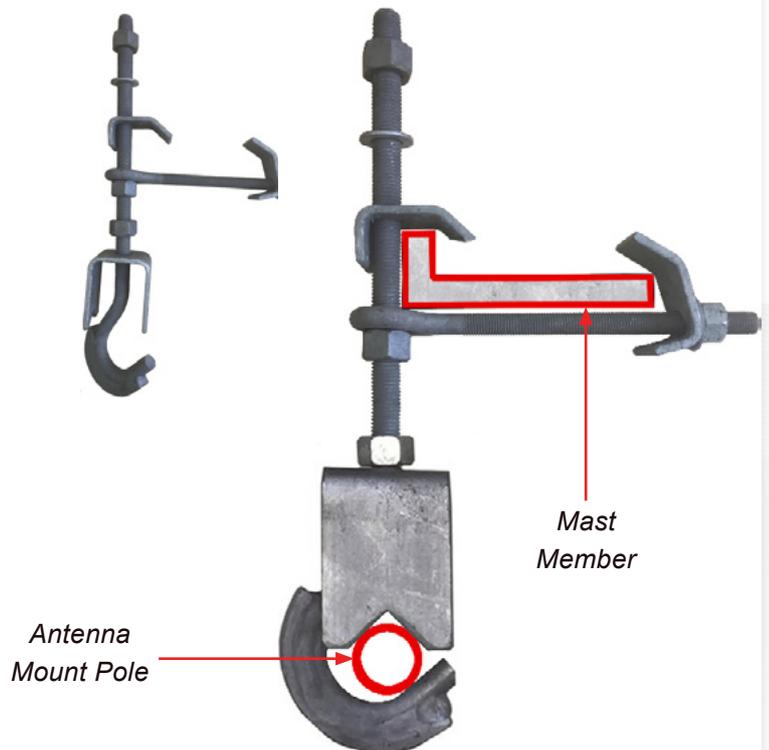


Clamps are designed for connecting Antenna (pole) to Mast (Angle member)

028182

Base Large Straddle Clamp (Mueller)

- Application:** Base station mast member
- Materials:** Galvanised Steel
- Mounting:** Horizontal or vertical
- Mast member size:** 70 to 200mm
- Arm Length:** 250mm
- Max load:** 25kg on 75mm mast member
- Weight:** 3.4kg



Clamps are designed for connecting Antenna (pole) to Mast (Angle member)

## Base Site Mounts

### 21110120 /150/180/270

### J-pole Fascia Mast

**Application:** Vertical mounting pole for light to medium weight antennas  
**Mounting:** Fascia Mount or horizontal wall  
**Materials:** Galvanised Steel

Part Number	Height	Pole OD	Weight
21110120	1.2m	25mm	1.45kg
21110150	1.5m		1.5kg
21110180	1.8m		2.5kg
21110270	2.7m		3.2kg



Antenna Hardware



### 21111100

### J-pole Support Kit

**Application:** Support kit for J-pole Fascia Masts  
**Materials:** Galvanised Steel  
**Includes:** 2 x 1.2m Hockey Stick Stay Bar  
 2 x 1.8m Hockey Stick Stay Bar  
 Hockey Stick Stay Bar Collar



**21120501**

**Stramit Clip Lock Roof Mount**

**Application:** Specially designed mount to fit Stramit or Clip Lock roof profiles with no penetrating holes.

Cleats clamp to roof profiles with pinch bolts.

Support masts up to 2.4m tall

**Materials:** Galvanised Steel

**Includes:** Support bar structure and base mount bracket

*Mast sold separately*

**21120502**

**Metal Roof Mount**

**Application:** For mounting on a metal roof.

**Materials:** Galvanised Steel

**Includes:** 1.2m mast



**21120503**

**Universal Tripod Roof Mount**

**Application:** Ideal for mounting on a tile roof, tin roof and concrete surfaces.

Non penetrating design for tile roofs.

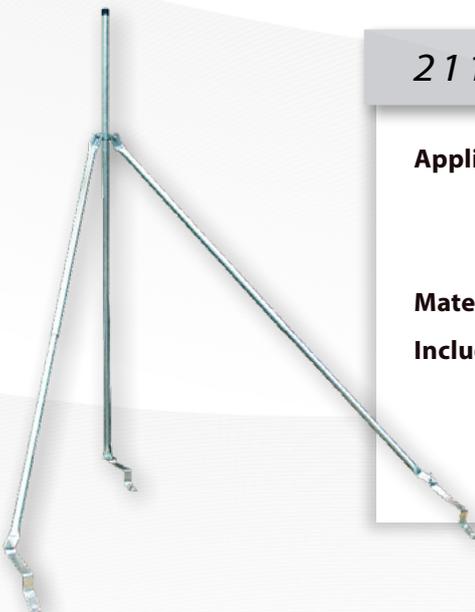
Z-brackets design to slide under tiles for securing to rafters.

**Materials:** Galvanised Steel

**Includes:** Support bar structure

Base mount bracket

1.8m mast



02816

### Wall Mount Certified Bracket

- Application:** Can be used for fixing to concrete or brickwork.  
Two brackets are used to hold a vertical pole.
- Materials:** Galvanised Steel
- Mounting:** Wall mount
- Pole OD:** 50 - 76.1mm
- Bracket Dimensions:** 140 x 160 x 300mm



Antenna Hardware



028171

### Pole Chain Mount Bracket

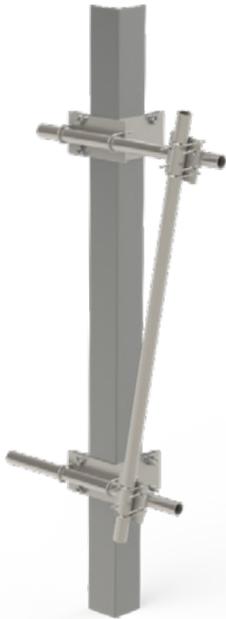
- Application:** Used for mounting on a concrete pole
- Materials:** Galvanised Steel
- Mounting:** Pole mount
- Pole OD:**
- Bracket Dimensions:** 220 x 200 x 400mm

028172

### Steel or Timber Pole Mount

- Application:** Used for mounting on a steel or timber pole
- Materials:** Galvanised Steel
- Mounting:** Pole mount



**028186**

## Tower Angle Leg Mount

- Application:** Can be used for fixing to concrete or brickwork.  
Two brackets are used to hold a vertical pole.
- Materials:** Galvanised Steel
- Mounting:** Tower Corner/Pillar
- Pole OD:** 50 - 76.1mm

**028187**

## Tower Face Mount 76 CHS Frame Angled leg

- Application:** Can be used for fixing to concrete or brickwork.  
Two brackets are used to hold a vertical pole.
- Materials:** Galvanised Steel
- Mounting:** Wall mount
- Pole OD:** 76.1mm
- Bracket Dimensions:** 140 x 160 x 300mm

**028188**

## Tower Leg Mount Circular Hollow Section

- Application:** Can be used for fixing to concrete or brickwork.  
Two brackets are used to hold a vertical pole.
- Materials:** Galvanised Steel
- Mounting:** Wall mount
- Pole OD:** 76.1mm
- Bracket Dimensions:** 140 x 160 x 300mm

028189

6° Angle Tower Leg Mount

- Application:** For use on a tower leg at 6°
- Materials:** Galvanised Steel
- Mounting:** Pole mount
- Pole OD:** 50 - 76.1mm
- Bracket Dimensions:** 140 x 160 x 300mm
- Weight:** 58.6kg

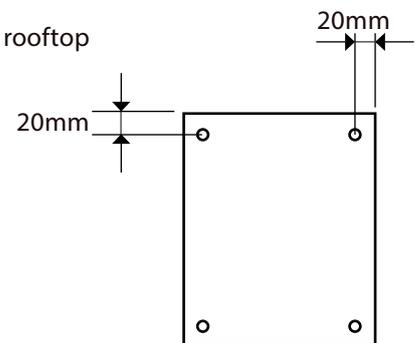


Antenna Hardware

028160

Wall & Floor Mounting Pole

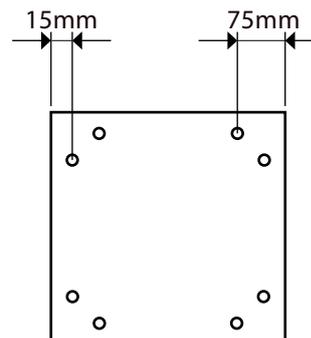
- Application:** Vertical or horizontal mounting pole for light to medium weight antennas
- Materials:** Stainless Steel
- Mounting:** Horizontal or vertical fixing to a wall, floor or rooftop
- Length:** 1000mm
- Pole OD:** 50mm
- Plate size:** 150 x 200 x 6mm,  
13mm Mounting holes x 4: 110x160mm



028191

Flat Mount Mast

- Application:** Vertical or horizontal mounting pole
- Materials:** Galvanised Steel
- Mounting:** Horizontal or vertical fixing to a wall, floor or rooftop
- Length:** 1000mm
- Pole OD:** 76mm
- Plate size:** 340 x 340 x 16mm,  
22mm Mounting holes x 8





**2113a07CS**

**S/S Antenna Mounting Pole**

**Application:** Mounting Pole

**Dimensions:** 6m length, 2mm wall

**Materials:** 304 Polished Stainless Steel

**Pole OD:** 50mm

**2113b07CS**

**S/S Antenna Mounting Pole**

**Application:** Mounting Pole

**Dimensions:** 6m length, 3mm wall

**Materials:** 304 Polished Stainless Steel

**Pole OD:** 50mm

**21130240G**

**GAL Antenna Mounting Pole**

**Application:** Mounting Pole

**Dimensions:** 2.4m length

**Materials:** Galvanised Steel

**Pole OD:** 32mm

**21130310G**

**GAL Antenna Mounting Pole**

**Application:** Mounting Pole

**Dimensions:** 3.05m length

**Materials:** Galvanised Steel

**Pole OD:** 32mm



**210010**

**Cable Drum Support Stand**

**Application:** Metal frame that supports a roll of cable, allows easy access and dispensing of cable

**Materials:** Galvanised Steel

**843101**

**Dektite Rubber Water Seal Cable Entry**

**Application:** Waterproof sealing of cable entries on metal roofs.

Dektite comes with two additional ports suitable for cables. Aluminium base that can be formed to suit your roof profile. Dektite has unique rubber boot design that provides contact with flashing pipe to create a perfect watertight seal. Rubber Dektite designed to withstand high temperatures of up to 115°C. Black in colour and UV rated.

- Penetration size:** 0 - 35mm
- Base Dimension:** 101 x 101mm
- Roof Pitch:** 0-45°
- Materials:** EPDM Rubber, Aluminium base



Antenna Hardware

**B1A26T83S**

**Stainless Steel Hose Clamp 40 - 64mm**

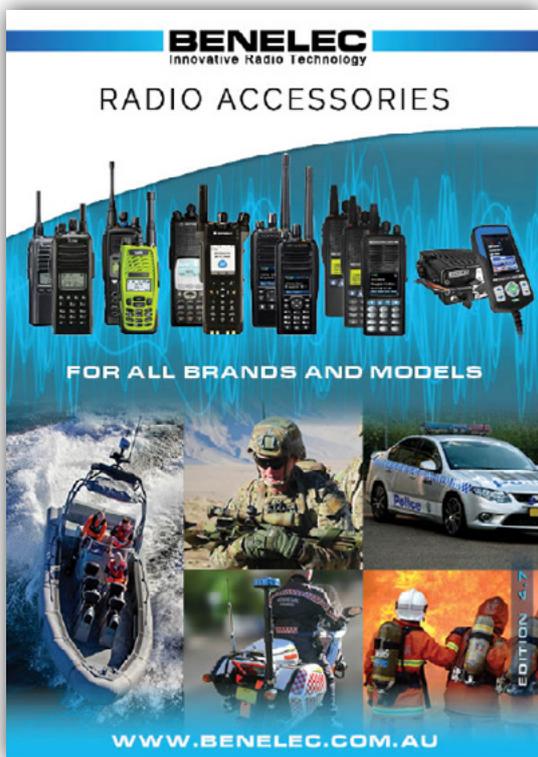
The flexible all stainless steel perforated band clamp design delivers low free torque for ease of installation and high strength for reliable high quality sealing.

- Clamp Size:** 40 - 64 mm diameter
- Materials:** Stainless Steel





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