

LMR SITE SOLUTIONS

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



EDITION 0.2



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BENELEC.AU



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'***



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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
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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

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

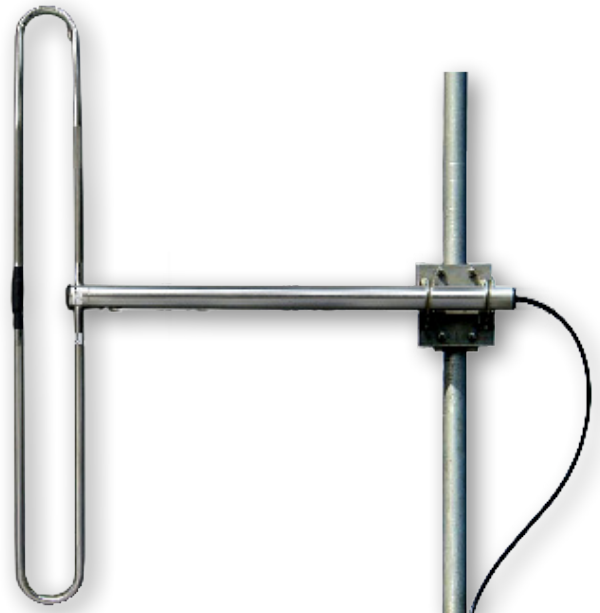


02530 / 02530A

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
02530	88 - 108 MHz	20 MHz	0 ~ 2.5 dBd	250W	N socket	L:1500mm W:1400mm Boom:1100mm	5kg
02530A	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



02556

VHF Air-Band, 118 - 136 MHz Collinear

The 02556 antenna, is a 3dBd Gain, Duplex Base Station antenna operating within the 118-136 MHz Air Band. The 02556 antenna allows sufficient bandwidth to cover 4.0MHz.

It offers a stable radiation pattern with negligible horizontal pattern tilt. Its robust construction ensures excellent longevity and performance. Base coverage for 4MHz segment of the 118-136 MHz Air Band.

Optional Bracket: **02811S, 02813, 02814, 02815, 028131**

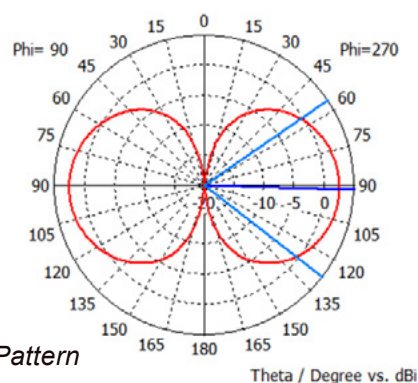
Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
118 - 136 MHz	4MHz	3 ~ 5 dBd	150W	N socket	L: 3700mm at 118MHz OD: 38mm	5.5kg

02557

VHF Air-Band, 118 - 136 MHz Full-Band Collinear

The 02557 Broad band antenna is intended for air band operation in the band 118-136MHz. It covers the entire band. The broad E Plane radiation pattern is ideal for air communications, whilst still maintaining ground coverage. The antenna is manufactured out of Stainless Steel and fiberglass.

Optional Bracket: **02811S, 02813, 02814, 02815, 028131**



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

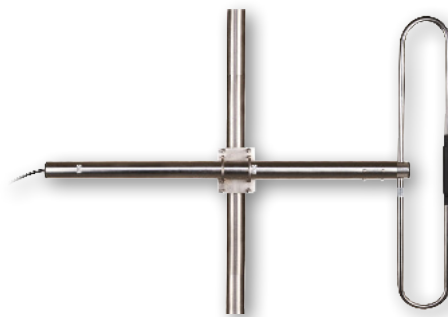
*Supplied with vertical member mounting bracket
for 50 - 90mm Mounting Pole*

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

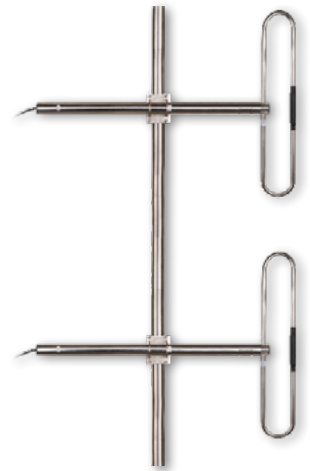
VHF Hi-Band, 136 - 174 MHz 2 Stack Offset Array

- 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

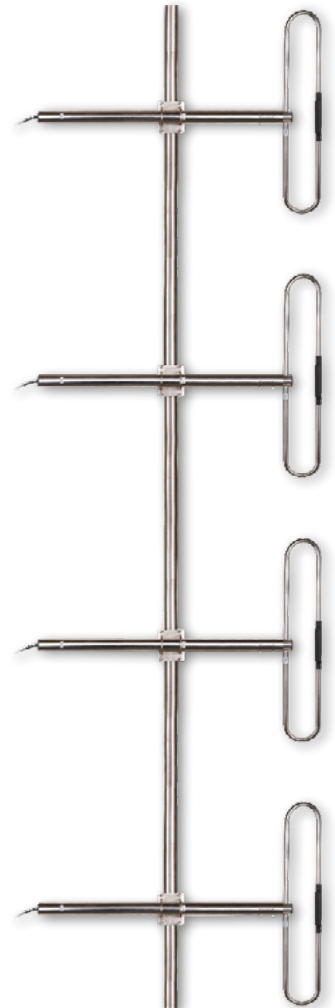
VHF Hi-Band, 136 - 174 MHz 4 Stack Offset Array

- 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

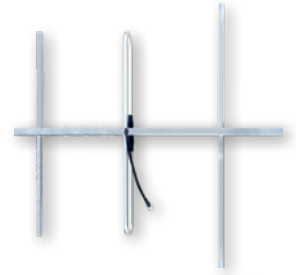
The 02548 antenna, is a 3dBd Gain, Omni-Directional Duplex Base Station antenna covering the 146-174 MHz Radio Band. The 02548 antenna allows sufficient bandwidth to cover the 6.0MHz Tx/RX Duplex spread within this band. It offers a stable radiation pattern with negligible horizontal pattern tilt. robust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



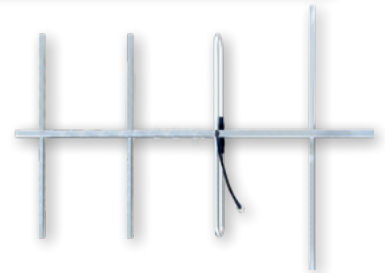
The 02583 antenna is a 3 Element all stainless steel directional yagi antenna for use in the 148-174MHz radio band. Its gain affords excellent radio link coverage. Its robust construction ensures excellent longevity and performance.

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

02584

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



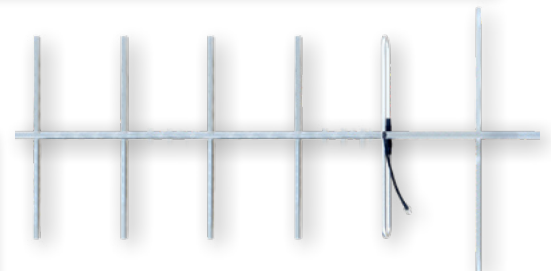
The 02584 antenna is a 4 Element all stainless steel directional yagi antenna for use in the 148-174MHz radio band. Its gain affords excellent radio link coverage. Its robust construction ensures excellent longevity and performance.

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 λ 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

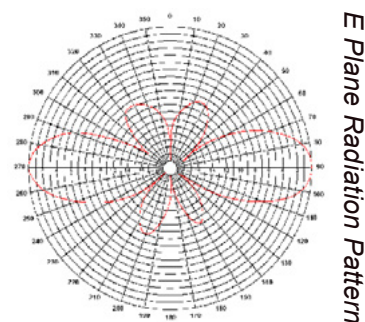
Omni-Directional Antennas 330 - 520 MHz

02681x2

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

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**



Site Antennas

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

Electrical Downtilt order detail

Suffix T3 for 3°, and T6 for 6°.

Alternative terminations

Suffix R for 7 - 16 DIN socket.

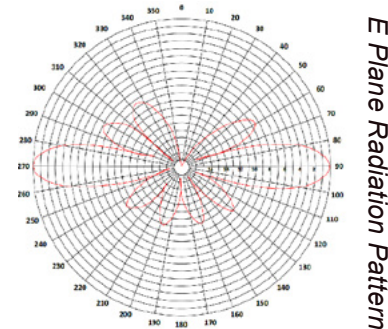
Suffix D for 4.3 - 10 DIN socket.

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
- Constant gain in all directions
- 6dBd of gain
- All Stainless Steel construction
- All welded construction
- Internal cabling
- Single or dual end mounting



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



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

Electrical Downtilt order detail

Suffix T3 for 3°, and T6 for 6°.

Alternative terminations

Suffix R for 7 - 16 DIN socket.

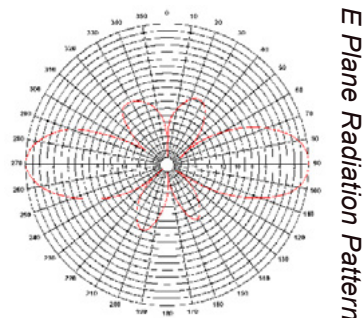
Suffix D for 4.3 - 10 DIN socket.

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



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



Site Antennas

Part	Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
02681R22	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
02681V22	380 - 490 MHz						
02681Z22	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.

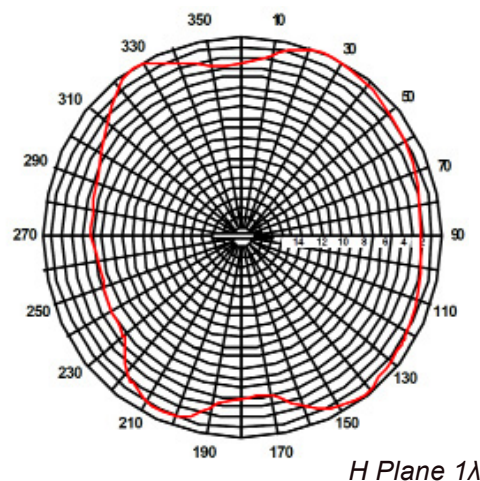
02680A

UHF Folded Dipole, 360 - 520 MHz, 1λ 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

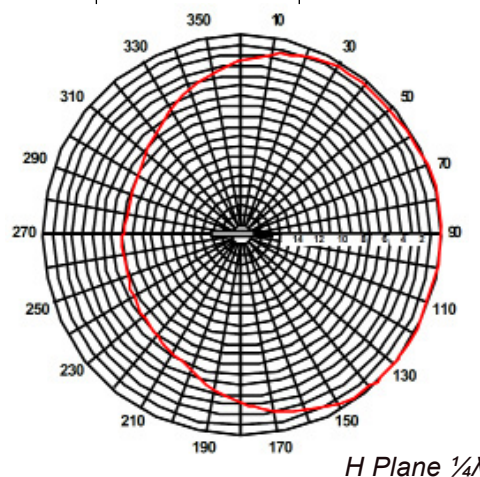
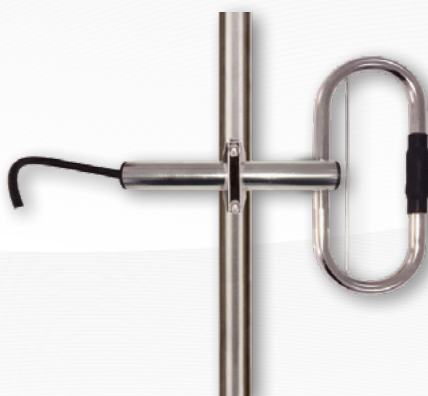


02680AS

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

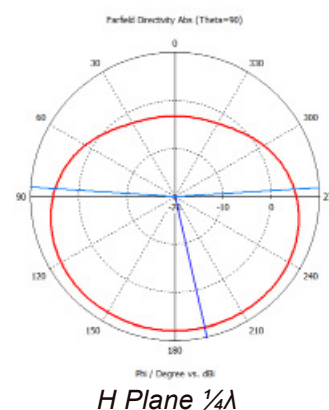
UHF Offset Dipole Array 360 - 520 MHz

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.

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



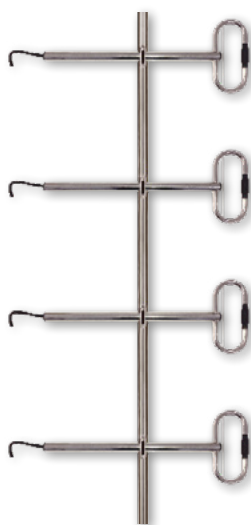
Dipole Mounting Brackets &
Phasing Harness Supplied
(mounting pole supplied by customer)



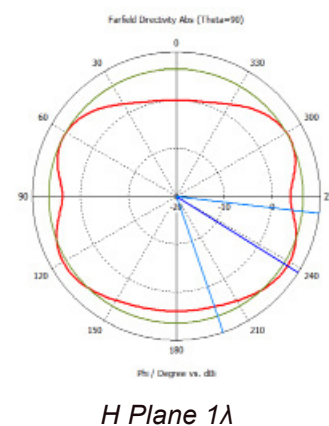
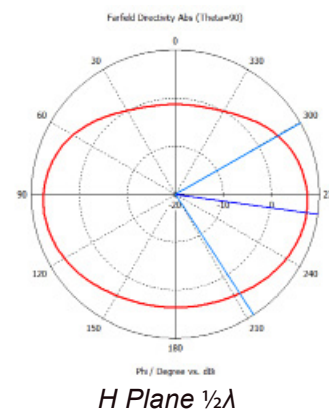
02680A4

UHF Offset Dipole Array 360 - 520 MHz

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



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



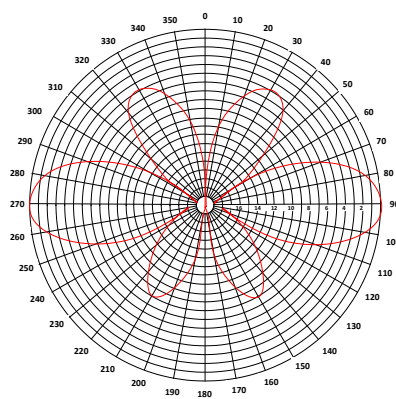
02645

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

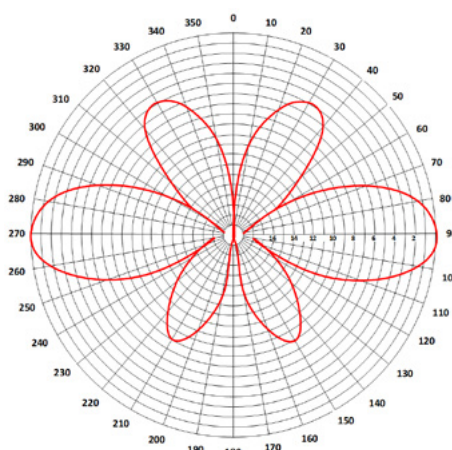
02645D

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

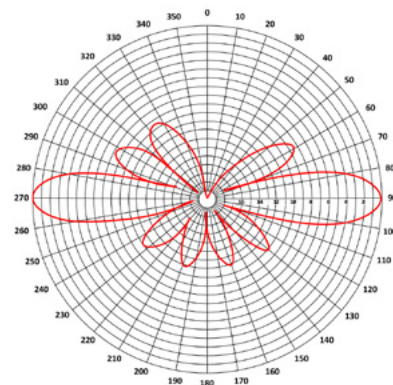
Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
315 - 520 MHz	3% <1.5:1	2 ~ 5 dBd	80W	N socket	L: 490mm	3kg

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**

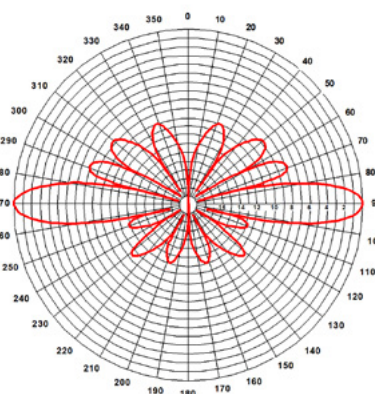
Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
380 - 520 MHz	1% <1.5:1	6 ~ 8.15 dBd	150W	N socket	L: 2850mm @ 400MHz	2kg

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

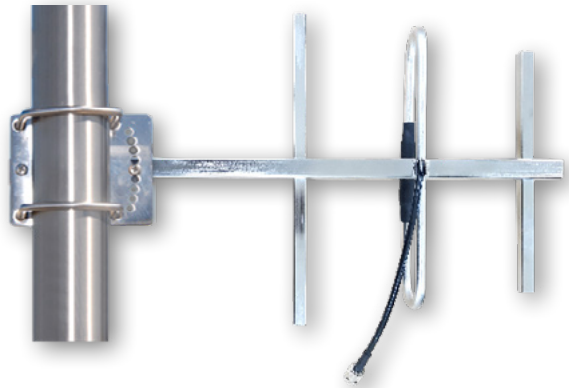


Directional Antennas 325 - 600 MHz

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

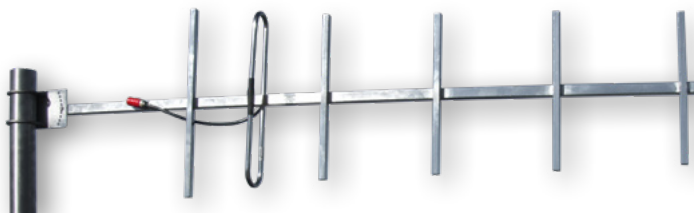
Supplied Bracket: **Tilt Adjustable pole mount**

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

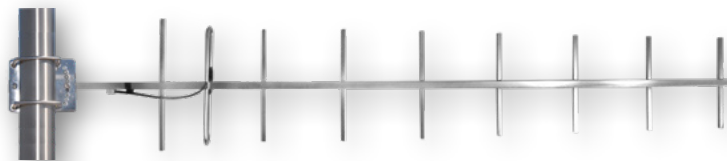
Supplied Bracket: **Tilt Adjustable pole mount**

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



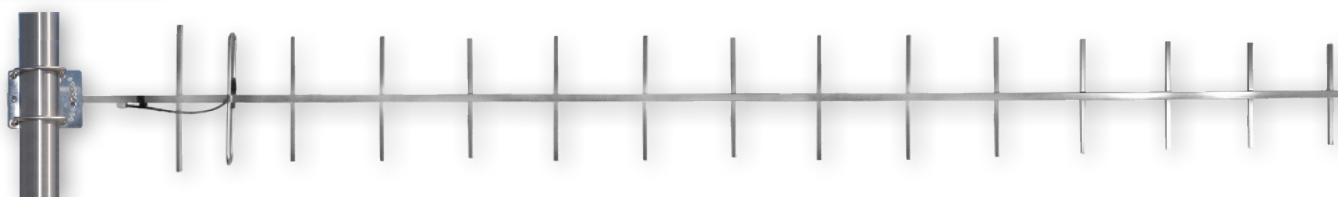
Supplied Bracketed: **Tilt Adjustable pole mount***

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

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

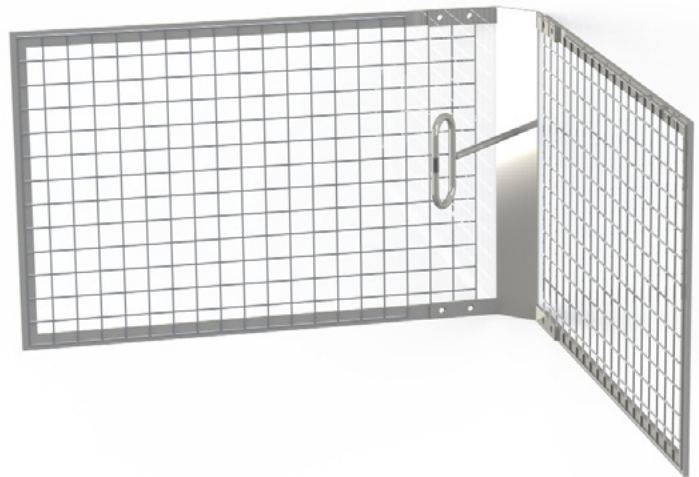
Part	Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
02684Q	380 - 400 MHz	Full Bandwidth Less than 1.5:1	12 ~ 14 dBd	150W	N socket	TBA	TBA
02684R	400 - 420 MHz					TBA	TBA
02684V	450 - 470 MHz					L: 2156mm	2.5kg
02684X	470 - 490 MHz					TBA	TBA
02684Y	490 - 510 MHz					TBA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

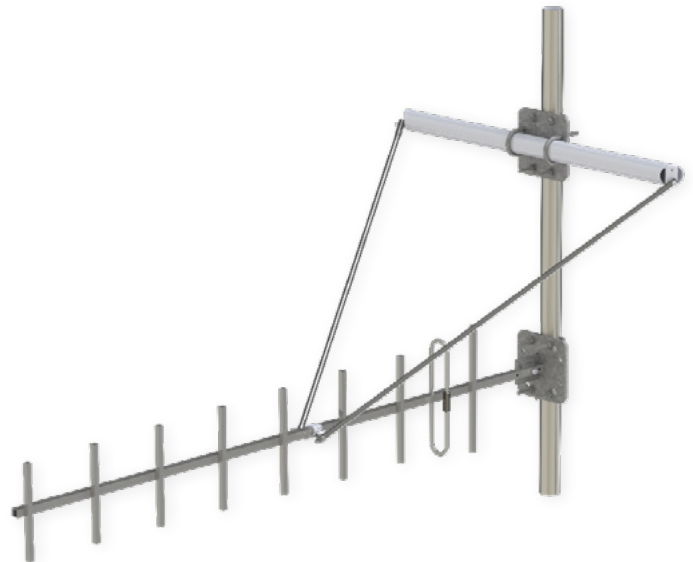
For both Benelec
02683 UHF 9 Element Yagi's and
02684 UHF 15 Element Yagi's.

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

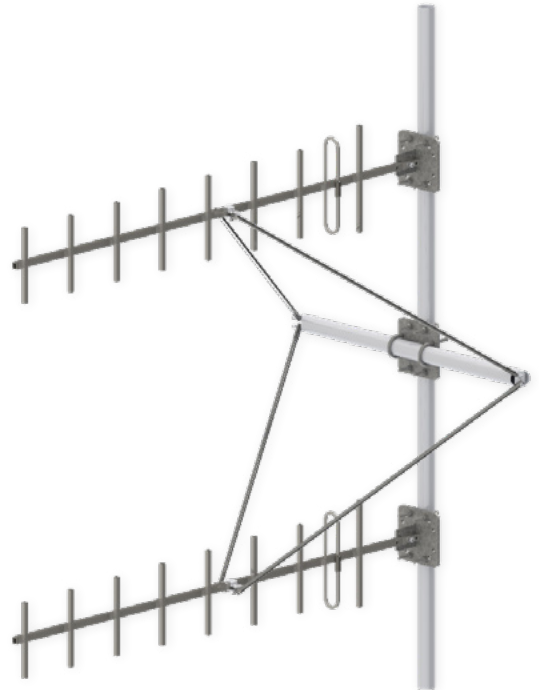
Dual Yagi Support Kit - High Wind Areas

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

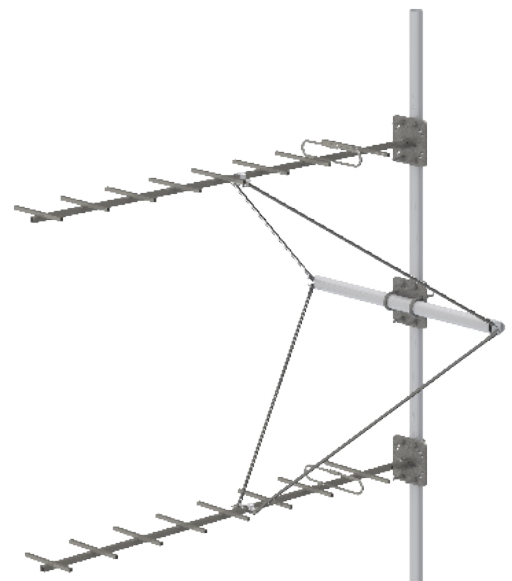
Dual Bay Mounting configuration

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

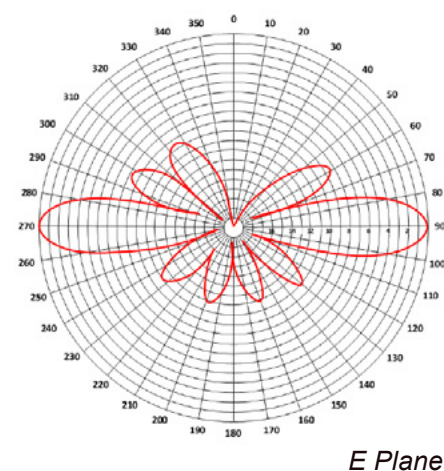
02211	VHF Discone 30-140MHz
02686	UHF Discone 200-520 MHz
02674	Discone 8 x 8 Element Heavy Duty Polished Stainless 65-1300MHz Ns
02675	Discone 6 x 6 Element 50-1000MHz UHF
02676	Discone 12x12 Element 50-1000MHz UHF

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



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



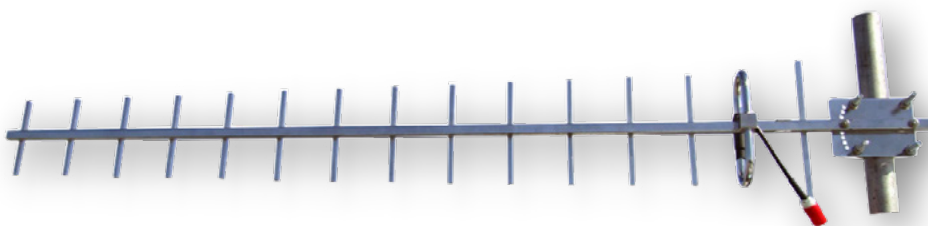
The 02482 antenna is an 9dBd Gain, Stainless Steel Yagi antenna for use in the linking band. Its high gain affords exceptional radio link coverage. The 02482 antenna offers a stable radiation pattern across the whole band 790-905 MHz. Its robust construction ensures excellent longevity and performance. 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
02482	790 - 905 MHz	<1.5:1	9 dBd	100W	N socket	L: 609mm W: 176mm	0.84kg
024821	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

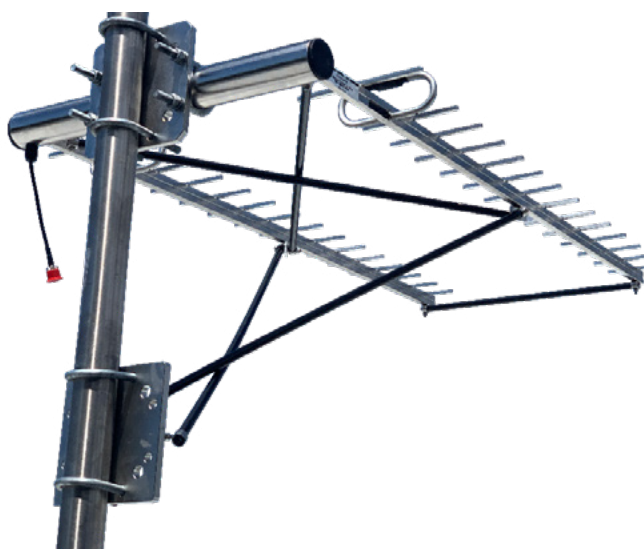


The 02484 antenna is a 12dBd (14dBi) Gain, Stainless Steel Yagi antenna for use in the 800-896MHz Radio Band. Its high gain affords exceptional radio link coverage. The 02484 antenna offers a stable radiation Pattern across the whole band 800-896MHz. Its robust construction ensures excellent longevity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

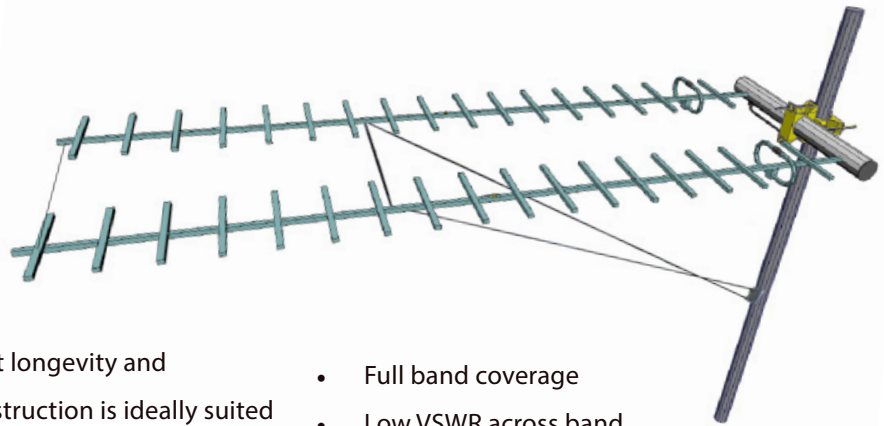
Frequency	Tuned Bandwidth	Gain	RF Power Rating	Termination	Dimensions	Weight
800 - 896 MHz	<1.6:1	15 ~ 17 dBd	100W	N socket	L: 1156mm W: 700mm	12kg

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

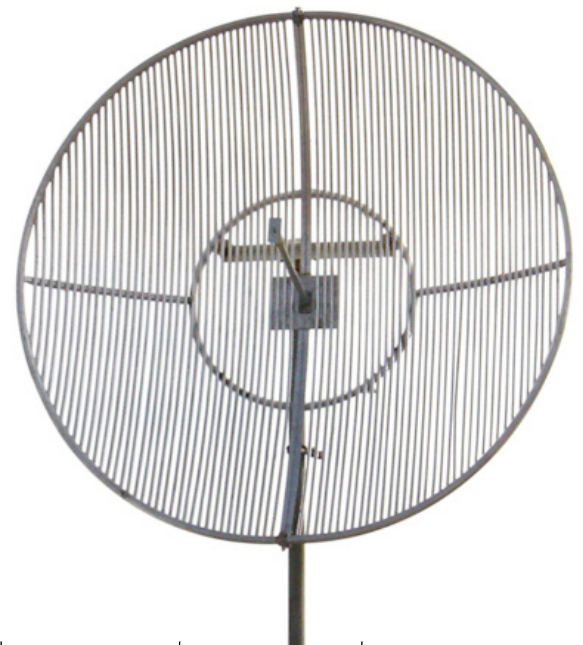
0248104U 18.1dBi, 790-875 MHz 1.2m Parabolic Grid, LP

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.

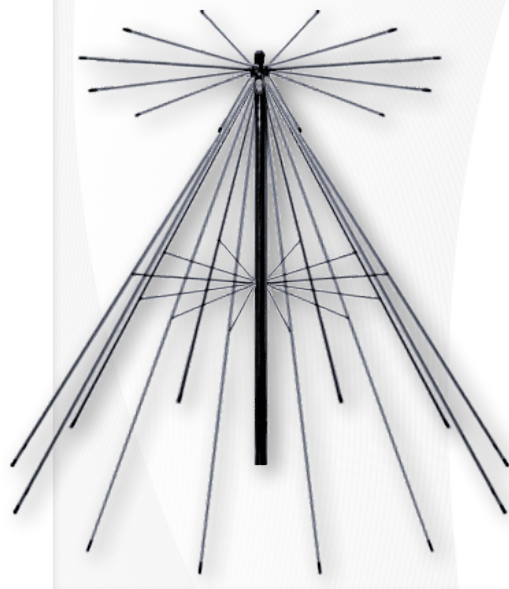


Part	Frequency	Tuned Bandwidth	Gain (dBi)	RF Power Rating	Termination	Dimensions	Weight
0248104U	790-875 MHz	85MHz <1.5:1	17.6(low), 18.1(mid), 18.5(high)	200W Continuous	N socket	L: 1220mm	37.7kg
0248106S			21.0(low), 21.5(mid), 21.9(high)			L: 1830mm	80.8kg

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: **028115, 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: **028115, 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

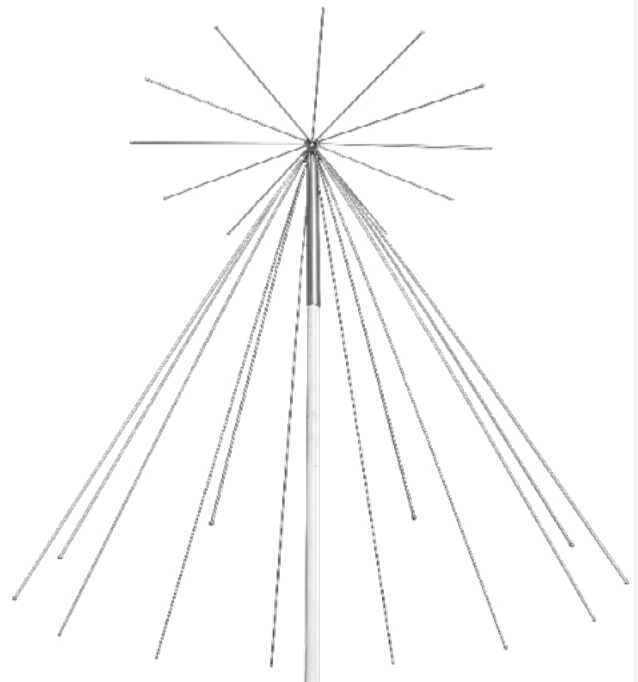
02676

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

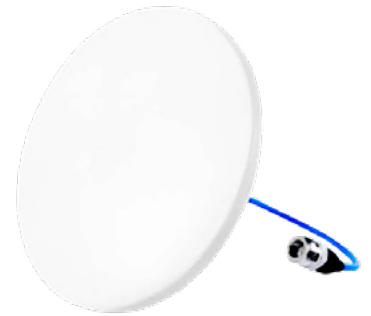
02492	5G Indoor Panel Wall Mount with Mounting Pole Bracket
02492M	5G Indoor Panel MiMo with Mounting Pole Bracket
02484E3	4G Base Log Yagi with Pole Mounting Bracket - 4 Rotation Angle Positions
02485	5G Shrouded Base Log Yagi with Mounting Pole Bracket
02487	4G (610 - 960MHz) Parabolic Grid Antenna

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.

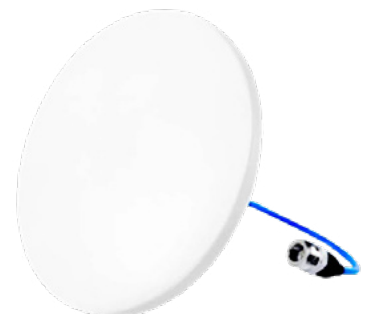


Gain	RF Power Rating	Termination	Dimensions	Weight
2.5 ~ 4 dBi	50W	2 x Low Loss Cable tail, 2 x N socket	φ 266x18mm	500g

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

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	180×170×60mm	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	180×170×60mm	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

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



02729

Wall Mounting Bracket 100mm Stainless Steel

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



027291

Mirror Bracket Stainless Steel

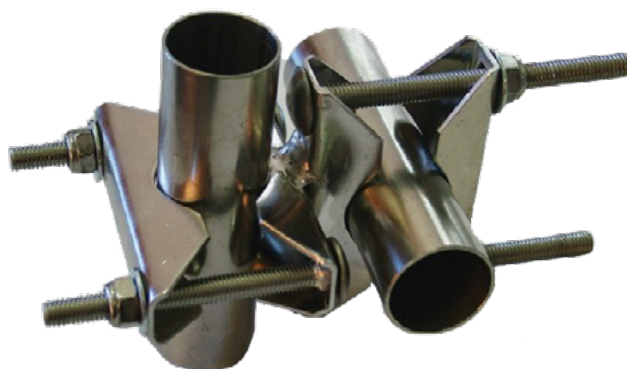
Application: Wall and Roof, light-weight antenna, base and leads
Materials: Polished Stainless Steel
Hole Size: 16mm
Dimensions: 80(L) x 32(W) x 45(H)mm
Thickness: 2mm
Screw: 3 x 5mm hole
Weight: 64g



028105

Base Station Right Angle Bracket Stainless Steel

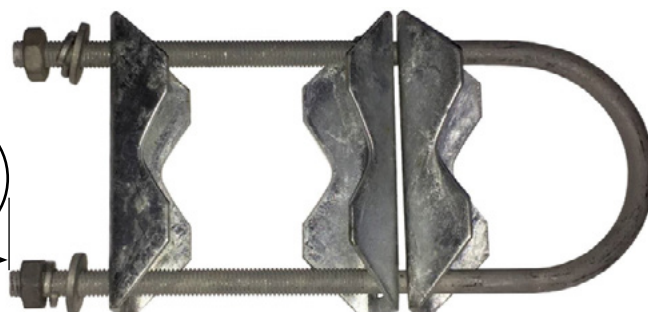
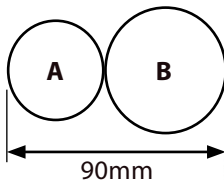
Application:	Base station
Materials:	Stainless Steel
Mounting:	Right Angle
Size:	16mm hole, 5mm gap
Pole OD:	20 to 60mm
Antenna Boom OD:	20 to 45mm
Weight:	425g



02811

Base Antenna Bracket Parallel Mounting GAL

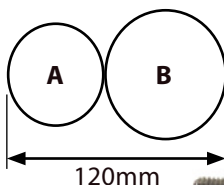
Application:	Base Station
Materials:	Galvanised Steel
Mounting:	Parallel
Pole OD:	20 to 60mm
Antenna Boom OD:	20 to 60mm
Total OD 2 Poles:	90mm max
Weight:	300g



028115

Base Antenna Parallel Bracket Stainless Steel

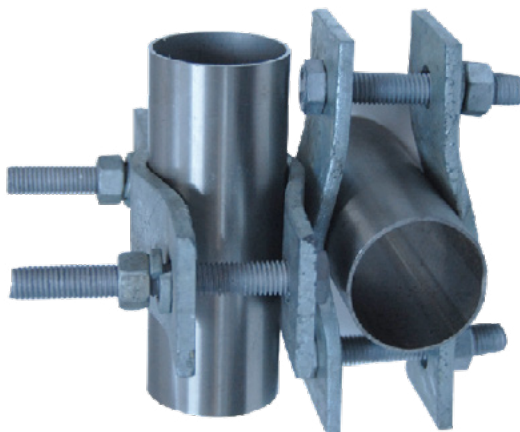
Application:	Base Station
Materials:	Stainless Steel
Mounting:	Parallel
Pole OD:	25 to 60mm
Antenna Boom OD:	20 to 60mm
Total OD 2 Poles:	120mm max
Weight:	320g



02812

Heavy Duty Right Angle Bracket GAL

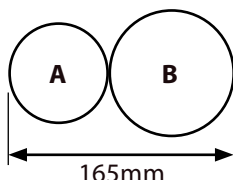
Application:	Base Station
Materials:	Galvanised Steel
Mounting:	Right Angle
Pole OD:	20 to 90mm
Antenna Boom OD:	20 to 90mm
Total OD 2 Poles:	90mm max
Weight:	1.9kg



02813

Heavy Duty Parallel Bracket GAL

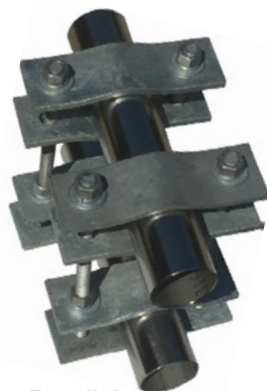
Application:	Base Station
Materials:	Galvanised Steel
Mounting:	Parallel
Pole OD:	20 to 90mm
Antenna Boom OD:	20 to 90mm
Total OD 2 Poles:	165mm max



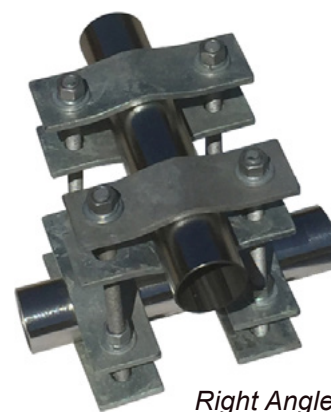
028131

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

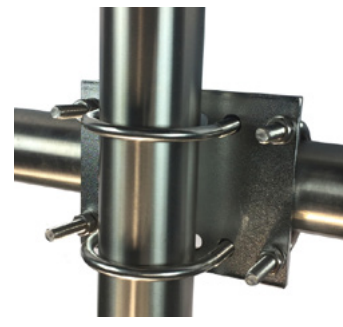
02815

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

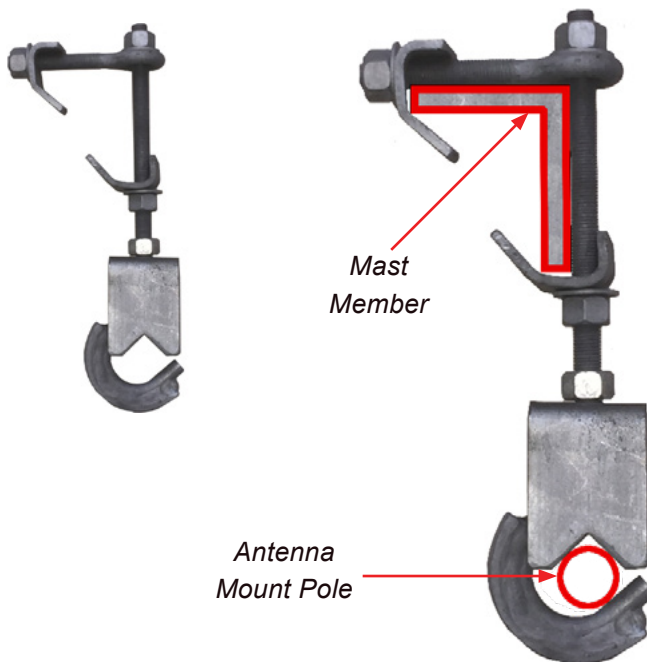


Right Angle

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

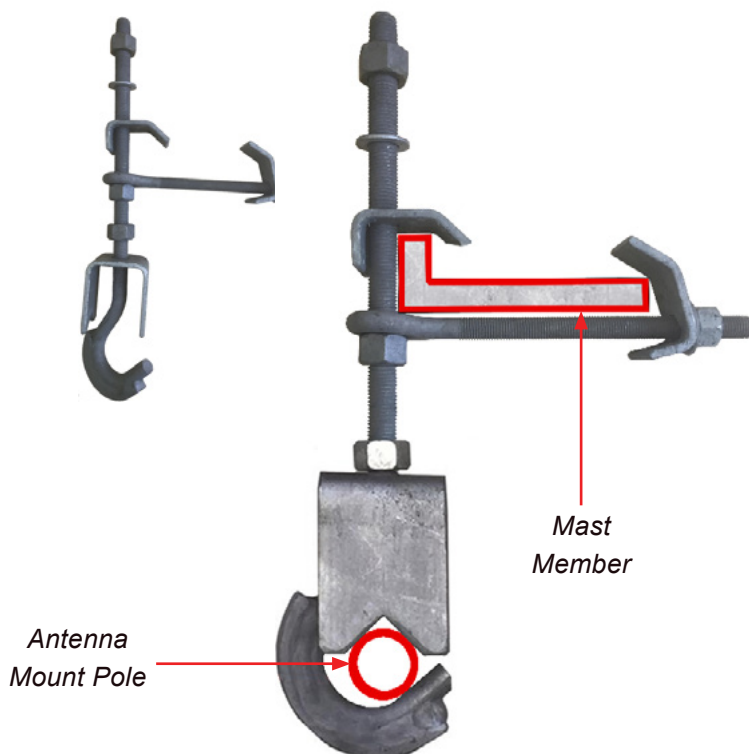


Clamps are designed for connecting Antenna (pole) to Mast (Angle member)

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.

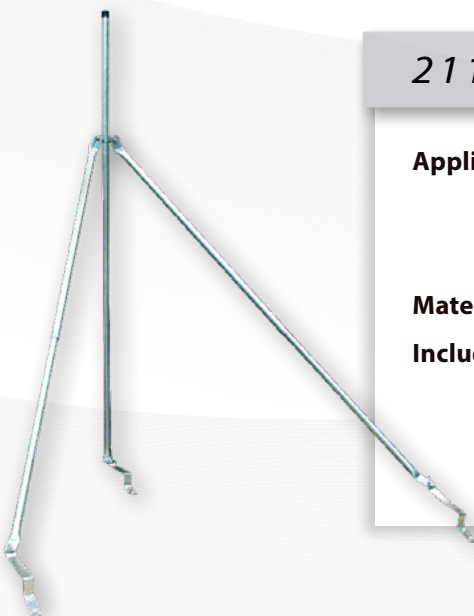
Z-brackets design to slide under tiles for securing to rafters.

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

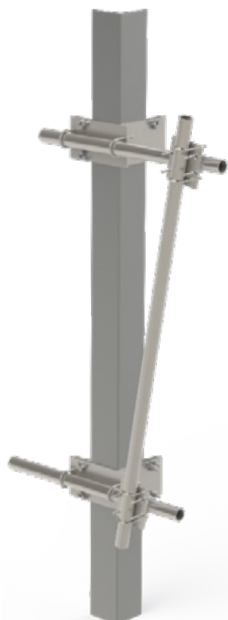
Steel or Timber Pole Mount

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

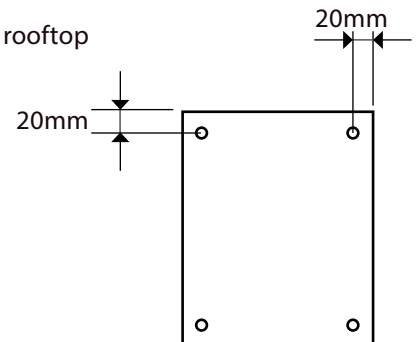
Application: For use on a tower leg at 6°
Materials: Galvanised Steel
Mounting: Pole mount
Pole OD: 50 - 76.1mm
Bracket Dimensions: 140 x 160 x 300mm
Weight: 58.6kg



028160

Wall & Floor Mounting Pole

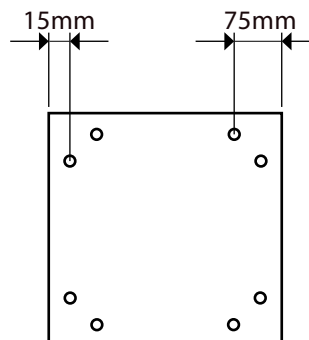
Application: Vertical or horizontal mounting pole for light to medium weight antennas
Materials: Stainless Steel
Mounting: Horizontal or vertical fixing to a wall, floor or rooftop
Length: 1000mm
Pole OD: 50mm
Plate size: 150 x 200 x 6mm,
 13mm Mounting holes x 4: 110x160mm



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

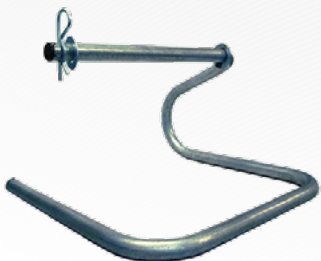
GAL Antenna Mounting Pole

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

**B1A26T83S**

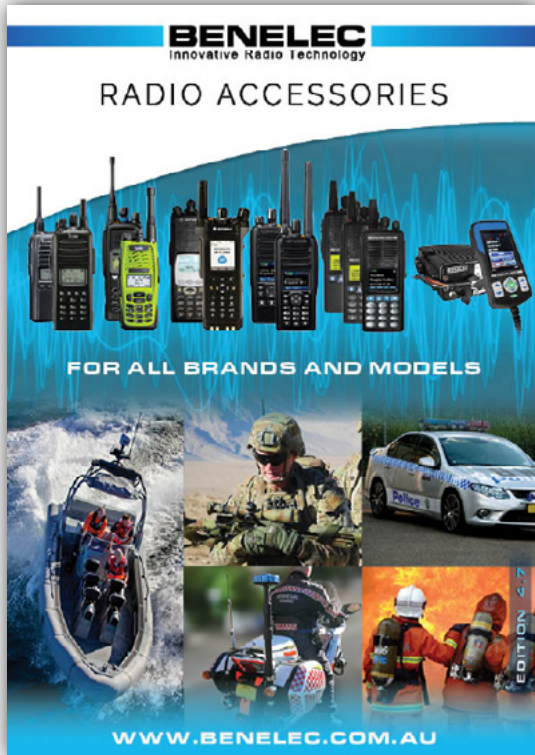
Stainless Steel Hose Clamp 40 - 64mm

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.

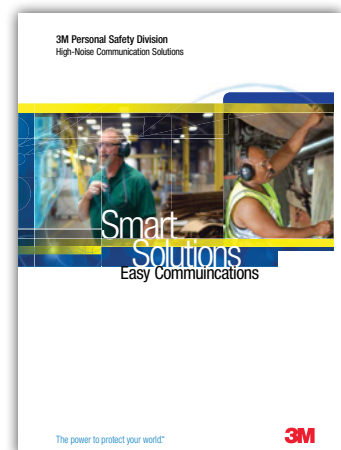
Clamp Size: 40 - 64 mm diameter
Materials: Stainless Steel



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