Judd Telemetry
TELEMETRY IN CONTROL

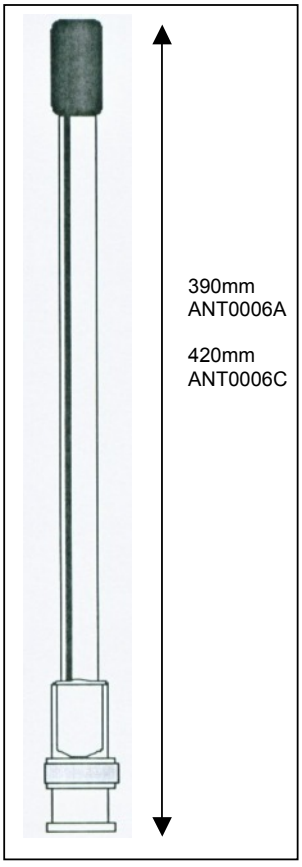
½ Wave Whip Antenna
406MHz - 470MHz
ANT 0006

Publication ANT0006/1/FEB2014

The ½ Wave Whip Antenna is used in applications that require a relatively short transmission range. The antenna is nominally rated at a gain of 3dBi and is suitable for ranges up to 1km, dependent on topography.

The construction is a corrosion-proof metal shaft with a resistive black plastic cover.

Note: The BNC connection should be sealed with self-amalgamating tape after installation.



Specifications

The ANT0006 is available in two versions, ANT0006A and ANT0006C, according to the required frequency.

ANT0006A		440 – 470MHz
ANT0006C		406 – 440MHZ
Frequency Range		406 – 470MHz
VSWR		<2 when mounted on top plate
Impendence		50 Ohms
Connector		BNC
Dimensions	ANT0006A	390mm length
	ANT0006C	420mm length

Please Note:
The ANT0006 antenna has been primarily designed for indoor use. If you do wish to use it externally, please ensure that the fitting is completely sealed against environmental damage with self-amalgamating tape.

Judd Ltd
Lower Voakes, West Chiltington
Pulborough, Sussex
RH20 2LU
'Phone - +44 (0)1798 815046
Email - juddtelemetry@gmail.com

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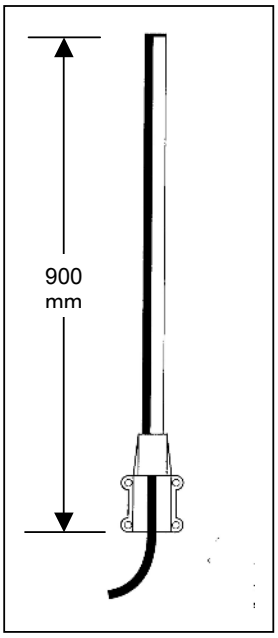
End-fed Dipole Antenna

420 - 470MHz
ANT0008/ANT0008-CAB

ANT0008/1/APR2014

The end fed dipole antenna is designed for outside installations requiring short to medium range transmissions.

The construction is a parallel glass fibre tube with an integral die cast aluminium alloy mounting bracket.

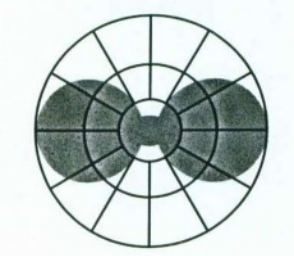


Specifications

Frequency Range	420 – 470MHz
Impedance	50 Ω
Maximum Power	75W
Polarisation	Vertical
Gain	0dBd
VSWR	<1.5:1 E
Plane Bandwidth	80°
Mounting	Integral die-cast aluminium alloy to suit up to 51mm diameter, with stainless steel bolts

Please Note:
The ANT0008 comes as standard with an integral 0.5m RG213 cable, terminating in an 'N' type female connector. If you require the antenna with an additional 3m RG213 cable, terminating in an 'N' type male connector, please order part number ANT0008-CAB.

Also available in frequency band 380MHz to 420MHz to order.



Radiation Pattern

Judd Ltd
Lower Voakes, West Chiltington
Pulborough, Sussex
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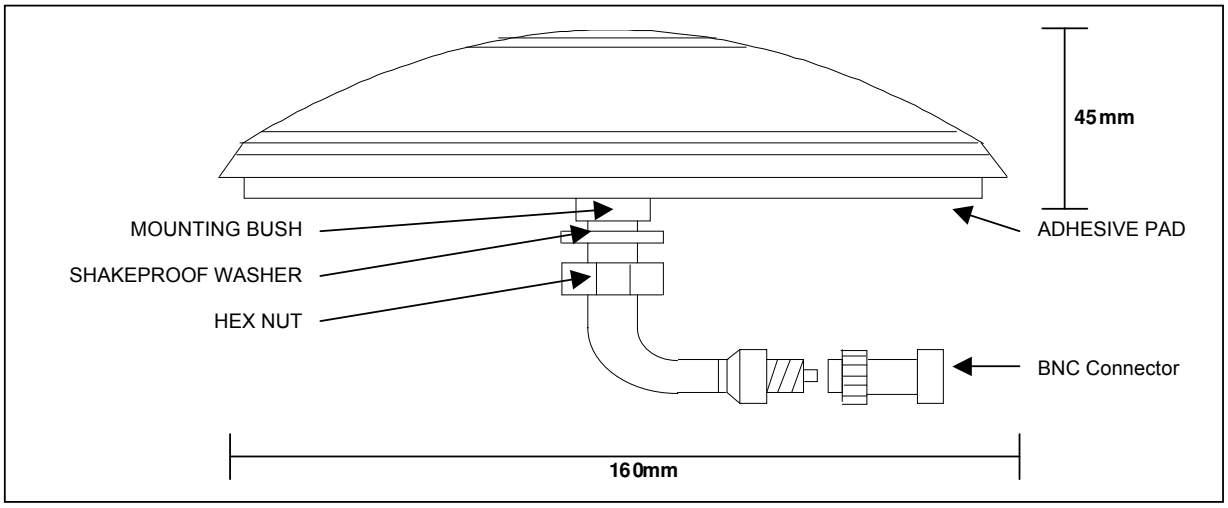
TELEMETRY IN CONTROL

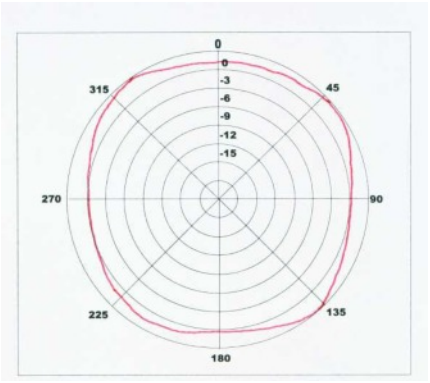
Low Profile Antenna

450-470M H z
ANT 0014

Publication ANT0014/1/SEP2014

The ANT0014 is a small, lightweight and versatile low profile UHF antenna, suitable for buses, trucks and other vehicles where height restrictions apply. Its unobtrusive appearance also makes it ideal in situations where vandalism or other deliberate damage may be an issue, such as pumping stations and roadside cabinets. Mountable on all surfaces, including GRP, as the groundplane element is integral.





460MHz H-Plane Radiation Pattern

Overall Width	160mm
Overall Height	45mm
Polarisation	Vertical
Cable Entry	0.5m of 3.5mm 50 Ohm Cable Terminated with BNC Jack
Fixing	M14 Centre Bolt with adhesive pad
Groundplane	Integral Baseplate Groundplane
Frequency Range	450 – 470MHz

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Pulborough, Sussex
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'Phone - +44 (0)1798 815046
Email - juddtelemetry@gmail.com

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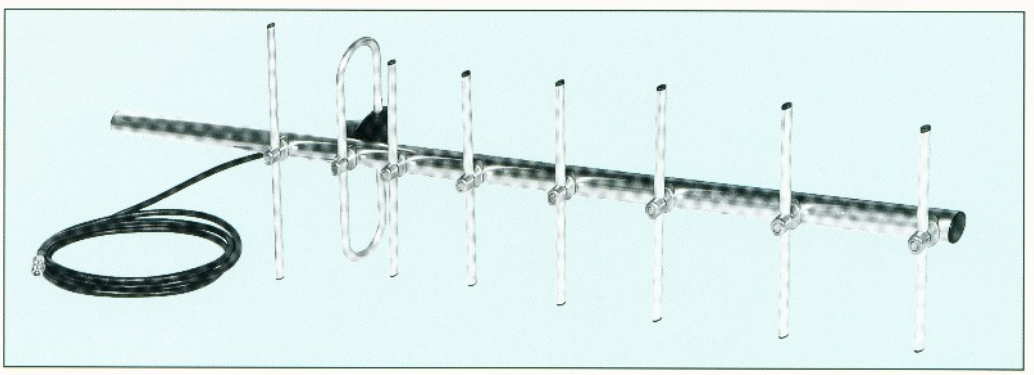
TELEMETRY IN CONTROL

Eight Element Yagi

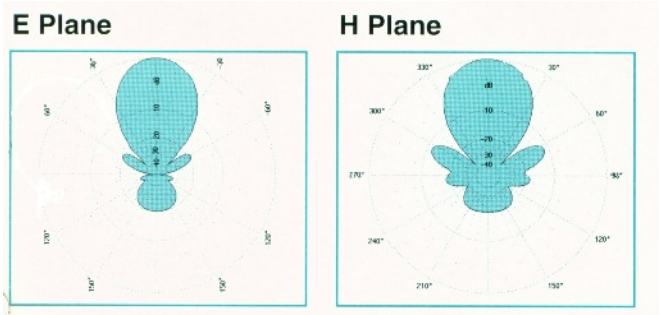
400-470MHz
ANT 0009-8

Publication ANT0009-8/1/MAY2014

The ANT0009-8 antenna is of a rugged and reliable construction for long range applications. The one piece folded dipole incorporates a DC short to minimise static interference. The balun assembly is completely encapsulated in epoxy resin, totally preventing moisture ingress, and has been tested to BS5490:IP67. This antenna gives a gain of 10 dBd with front to back ratio typically 18dB. They are supplied as standard with 3m of RG213 cable, terminated with an 'N' type socket.



Radiation Patterns(dB)



Specifications:

Frequency Range	400-470MHz
Input Impedance	50 Ω
VSWR	< 1.5:1
Front to Back Ratio	18dB
Maximum Input Power	50 Watts
Polarisation	Vertical and horizontal
Forward Gain	10 dB
Beamwidth	E Plane 43°
	H Plane 50°
Weight	3.5kg
Boom Length	1.6m
Wind Loading @ 45m/s	128N
Mounting Clamp	Clamps for 50mm pole

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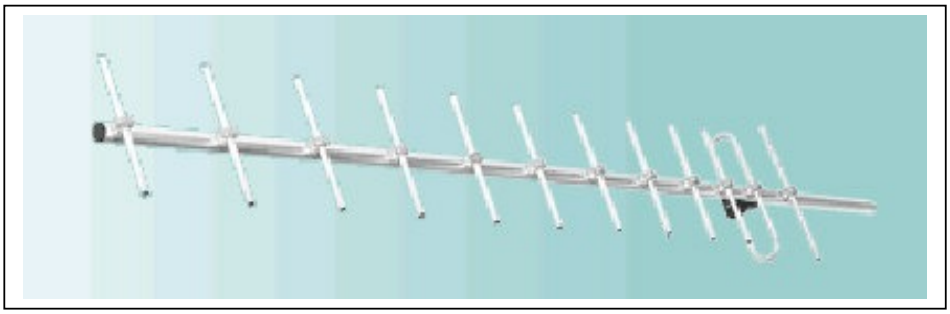
TELEMETRY IN CONTROL

Twelve Element Yagi

380-470MHz
ANT 0009-12

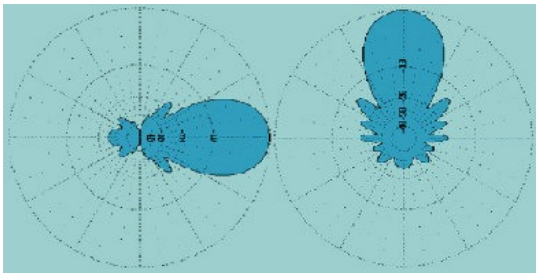
Publication ANT0009-12/1/JUNE2014

The ANT0009-12 offers high gain from a highly directive radiation pattern for use in UHF link systems. The one-piece folded dipole incorporates a D.C. short to minimise static interference. The balun assembly is completely encapsulated in epoxy resin, totally preventing moisture ingress, and has been tested to BS5490:IP67. This antenna gives a gain of 12dBd with front to back ratio typically 20dB. They are supplied as standard with 3 metres of RG213 cable terminated with an 'N' type socket.



Radiation Patterns(dB)

E Plane H Plane



Specifications:

Frequency Range	380-470MHz
Input Impedance	50 Ω
VSWR	< 1.5:1
Front to Back Ratio	20dB
Maximum Input Power	50 Watts
Polarisation	Vertical and horizontal
Forward Gain	12dBd
Beamwidth	E Plane 34°
	H Plane 40°
Boom Length	2.3m
Weight	4.4kg
Wind Loading @ 45 m/s	180N
Mounting Clamp	Clamps for 50mm pole

Judd Ltd
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Pulborough, Sussex
RH20 2LU
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