

**ANH and ANF series antennas**  
are hand built and tuned for the best performance.

The rugged construction of the ANH will stand up to high levels of abuse, and the flexible design of the ANF “gives” to impacts **to prevent damage and misalignment of the antenna.**

Their sealed **UV and corrosion resistant** housings and nickel plated fittings with gold contacts provide a reliable RF connection in hostile environments.





# Accessories

Heavy duty antennas and cables



B00006-00

## HEAVY DUTY ANTENNA

# DIPOLE ANH SERIES

The range and performance of a RF link is critically dependent upon the antenna and it is one of the more complex aspects of on RF design.

An antenna can make or break a wireless network. The proper antenna can optimize the range, reliability and performance of a radio network.

## FEATURES

- ✓ **HYBRID™ TECHNOLOGY**  
Embedded Hybrid™ circuitry allows for maximum performance and unmatched durability
- ✓ **ANH HEAVY DUTY SERIES**  
Rugged construction allows the use of our antennas in hostile environments where weather and abuse are a factor
- ✓ **FREQUENCY**  
Available for 868 MHz, 900 MHz and 2.4 GHz
- ✓ **N MALE CONNECTOR**  
Available for vertical or 90° mounting



## NOMENCLATURE

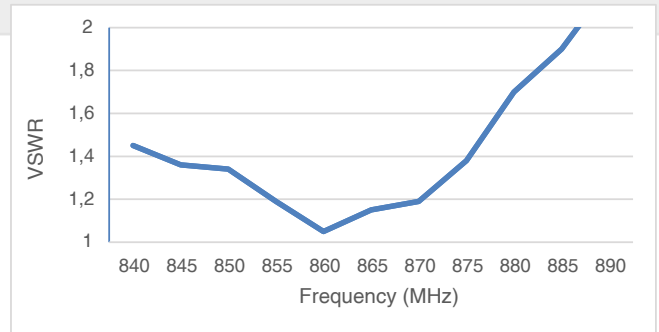
<b>a</b>	<b>Frequency</b>	
	4	868 MHz
	5	900 MHz
	7	2.4 GHz
<b>b</b>	<b>Antenna connection</b>	
	3	N Female
	C	N Male
<b>c</b>	<b>Antenna mounting</b>	
	S	Straight (vertical)
	R	Elbow (90°)

ANH  $\frac{5}{a}$  2 -  $\frac{C}{b}$  N  $\frac{S}{c}$  U

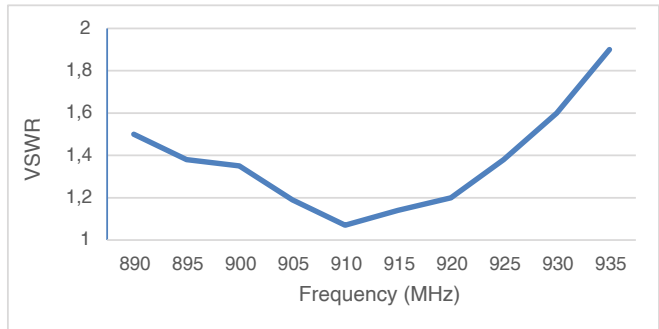
# SPECIFICATIONS

<b>Radiation</b>	Omni
<b>Polarization</b>	Vertical
<b>Wave</b>	1/2 (dipole)
<b>Connector</b>	N Male Brass nickel plated
<b>Material</b>	UV resistant ABS
<b>Ambient temp. range</b>	-40°C (-40°F) +80°C (+176°F)

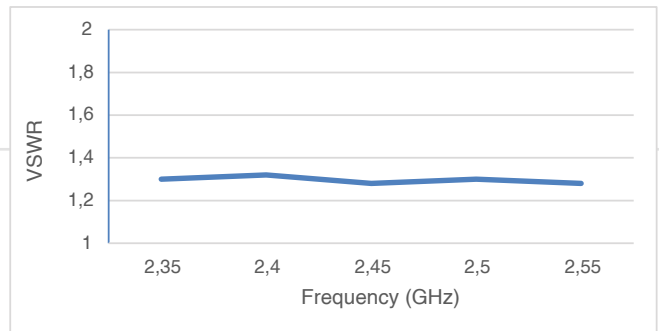
	ANH 42	ANH 52	ANH 72
<b>Frequency Range</b>	855 - 883 MHz	890 - 935 MHz	2.35 - 2.55 GHz
<b>Impedance (nominal)</b>	50Ω @ 868 MHz	50Ω @ 915 MHz	50Ω @ 2.45 GHz
<b>VSWR (average)</b>	1.14 : 1	1.14 : 1	1.13 : 1
<b>Gain max</b>	2.00 dBi	2.00 dBi	2.00 dBi



ANH42



ANH52

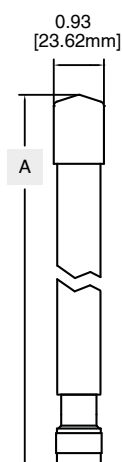


ANH72

## DIMENSIONAL DRAWINGS

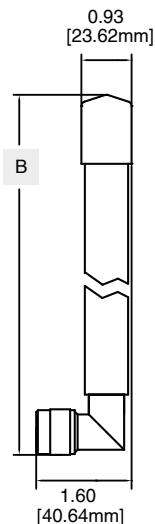
### Models

ANH42-CNSU  
ANH52-CNSU  
ANH72-CNSU



### Models

ANH42-CNRU  
ANH52-CNRU  
ANH72-CNRU



### Model

**A** inch [mm]

ANH42-CNSU	6.45 [158.20]
ANH52-CNSU	6.45 [158.20]
ANH72-CNSU	3.85 [97.80]

### Model

**B** inch [mm]

ANH42-CNRU	6.24 [158.50]
ANH52-CNRU	6.24 [158.50]
ANH72-CNRU	3.75 [95.25]



## HEAVY DUTY ANTENNA

# J-POLE ANH SERIES

The range and performance of a RF link is critically dependent upon the antenna and it is one of the more complex aspects of on RF design.

An antenna can make or break a wireless network. The proper antenna can optimize the range, reliability and performance of a radio network.

## FEATURES

- ✓ **J-POLE TECHNOLOGY**  
 This highly stable, higher gain antenna goes the distance and is in a smaller package compared to other high gain antennas.  
 With a higher gain ground plane it is less sensitive to its installed environment ensuring stable communication at longer distances
- ✓ **ANH HEAVY DUTY SERIES**  
 Rugged construction allows the use of our antennas in hostile environments where weather and abuse are a factor
- ✓ **FREQUENCY**  
 Available for 868 MHz, 900 MHz and 2.4 GHz
- ✓ **N MALE CONNECTOR**  
 Available for vertical or 90° mounting



## NOMENCLATURE

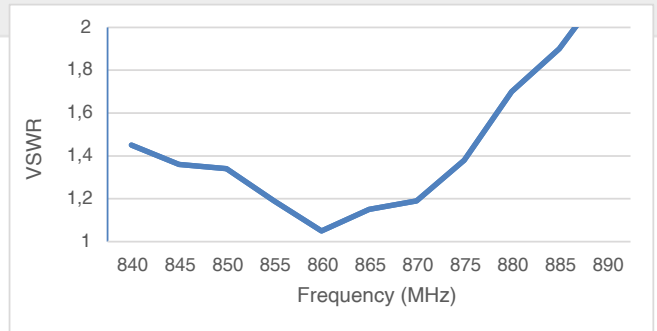
<b>a</b>	<b>Frequency</b>	
	4	868 MHz
	5	900 MHz
	7	2.4 GHz
<b>b</b>	<b>Antenna connection</b>	
	3	N Female
	C	N Male
<b>c</b>	<b>Antenna mounting</b>	
	S	Straight (vertical)
	R	Elbow (90°)

ANH  $\frac{5}{a}$  3 -  $\frac{C}{b}$  N  $\frac{S}{c}$  U

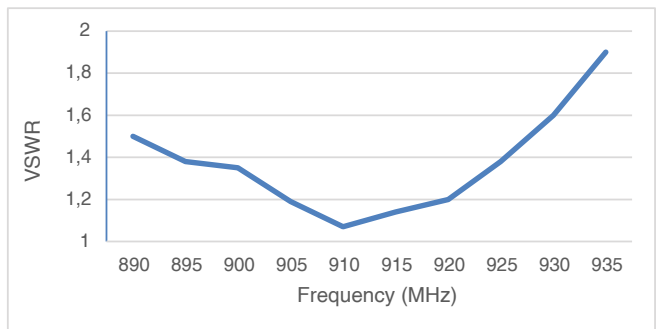
# SPECIFICATIONS

<b>Radiation</b>	Omni
<b>Polarization</b>	Vertical
<b>Wave</b>	J-pole configuration
<b>Connector</b>	N Male Brass nickel plated
<b>Material</b>	UV resistant ABS
<b>Ambient temp. range</b>	-40°C (-40°F) +80°C (+176°F)

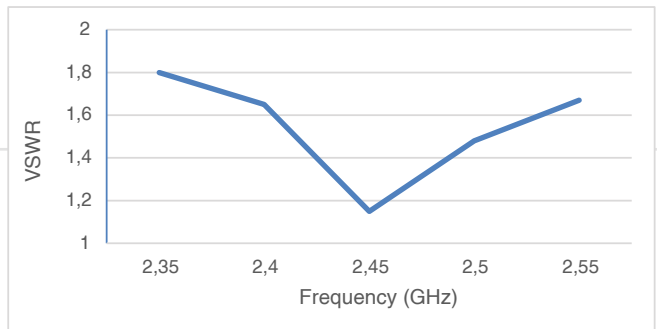
	ANH 43	ANH 53	ANH 73
<b>Frequency Range</b>	855 - 883 MHz	890 - 935 MHz	2.35 - 2.55 GHz
<b>Impedance (nominal)</b>	50Ω @ 868 MHz	50Ω @ 915 MHz	50Ω @ 2.45 GHz
<b>VSWR (average)</b>	1.4 : 1	1.4 : 1	1.4 : 1
<b>Gain max</b>	3.00 dBi	3.00 dBi	4.35 dBi



ANH43



ANH53



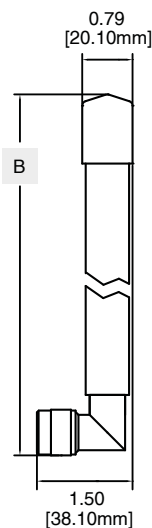
ANH73

## DIMENSIONAL DRAWINGS



### Models

ANH43-CNSU  
ANH53-CNSU  
ANH73-CNSU



### Models

ANH43-CNR  
ANH53-CNR  
ANH73-CNRU

Model	A inch [mm]
ANH43-CNSU	13.55 [344.20]
ANH53-CNSU	13.55 [344.20]
ANH73-CNSU	6.17 [156.70]

Model	B inch [mm]
ANH43-CNRU	13.95 [354.30]
ANH53-CNRU	13.95 [354.30]
ANH73-CNRU	6.57 [166.90]



B00008-00

## HEAVY DUTY ANTENNA

# FLEXIBLE ANF SERIES

The Solexy Highly Flexible Antenna is designed for rough environments, this along with our Heavy Duty Line of antennas meets the demands of the tough applications while being affordable yet durable.

Solexy Antennas have met the demands and are well known throughout the Oil and Gas industries.



## FEATURES

- ✓ **FLEX TECHNOLOGY**  
This Highly flexible antenna was designed to meet the requirements of a high traffic environment, one hit and it bounces right back.  
It also has over a 25Kg (55 lbs.) pull strength.  
This antenna has the signal dependability of a Dipole antenna and the flexibility to bounce back from any hit.
- ✓ **ANF HEAVY DUTY SERIES**  
Rugged construction allows the use of our antennas in hostile environments where weather and abuse are a factor.
- ✓ **FREQUENCY**  
Available for 868 MHz, 900 MHz and 2.4 GHz
- ✓ **N MALE CONNECTOR**  
Available for vertical or 90° mounting

## NOMENCLATURE

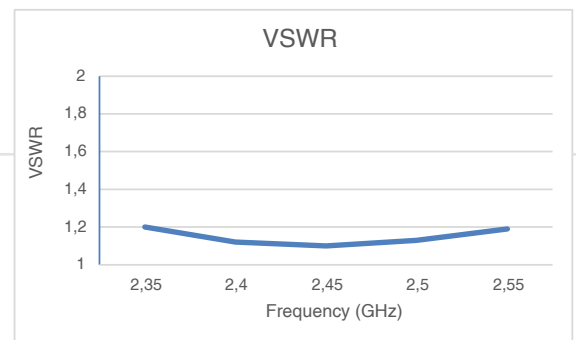
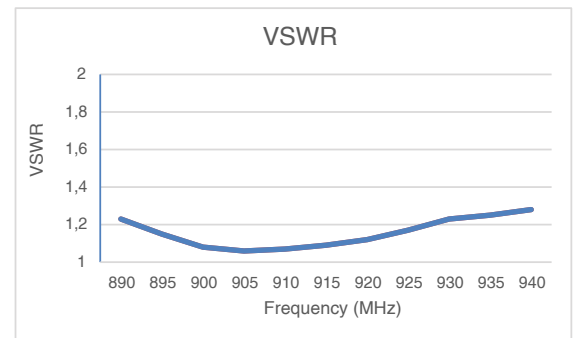
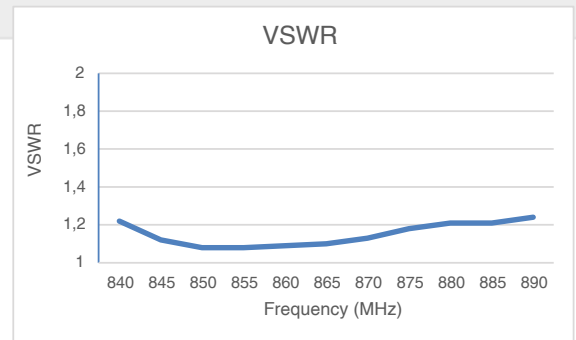
ANF  $\frac{5}{a}$  2 -  $\frac{C}{b}$  N  $\frac{S}{c}$  U

<b>a</b>	<b>Frequency</b>	
	4	868 MHz
	5	900 MHz
	7	2.4 GHz
<b>b</b>	<b>Antenna connection</b>	
	3	N Female
	C	N Male
<b>b</b>	<b>Antenna mounting</b>	
	S	Straight (vertical)
	R	Elbow (90°)

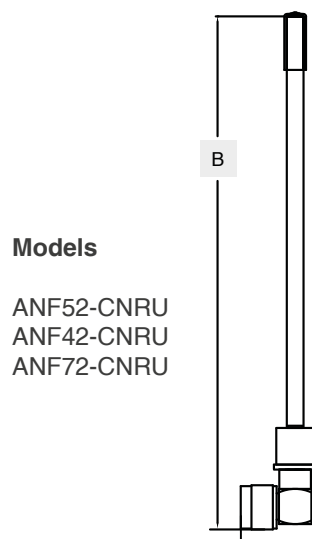
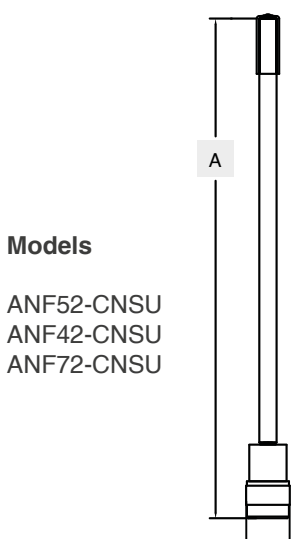
# SPECIFICATIONS

<b>Radiation</b>	Omni
<b>Polarization</b>	Vertical
<b>Wave</b>	1/2
<b>Connector</b>	N Male Brass nickel plated
<b>Antenna Tip</b>	Soft black PVC
<b>Adapter</b>	Black Delrin
<b>Material</b>	UV resistant PUR
<b>Ambient temp. range</b>	-40°C (-40°F) +80°C (+176°F)

	ANF 42	ANF 52	ANF 72
<b>Frequency range</b>	855 - 883 MHz	902 - 928 MHz	2.35 - 2.55 GHz
<b>Impedance (nominal)</b>	50Ω @ 868 MHz	50Ω @ 915 MHz	50Ω @ 2.45 GHz
<b>VSWR (average)</b>	1.14 : 1	1.14 : 1	1.14 : 1
<b>Gain max</b>	2.00 dBi	2.00 dBi	2.00 dBi



## DIMENSIONAL DRAWINGS



Model	A	inch [mm]
ANF42-CNSU	11	[279.4]
ANF52-CNSU	11	[279.4]
ANF72-CNSU	7	[177.8]

Model	B	inch [mm]
ANF42-CNRU	11.4	[289.56]
ANF52-CNRU	11.4	[289.56]





B00009-00

## HEAVY DUTY ANTENNA

# GPS ANH SERIES

The Solexy's ANHA and ANHB series is a selection of heavy duty antennas specifically designed for satellite applications, covering a wide range of frequency bands including GPS, GLONASS and IRIDIUM.

The ANHA and ANHB series are passive, narrow bandwidth and high gain antennas, perfectly compatible with Solexy's AX and RX intrinsically safe antenna couplers.

The ANHA and ANHB series are RHCP (Right Hand Circular Polarized) in order to be compatible with the propagated GPS signals.



## FEATURES

- ✓ **PASSIVE**  
High gain passive execution to be used in combination with intrinsically safe Solexy antenna couplers
- ✓ **ANH HEAVY DUTY SERIES**  
Rugged construction allows the use of our antennas in hostile environments where weather and abuse are a factor
- ✓ **FREQUENCY**  
Available for GPS/GLONASS and IRIDIUM systems
- ✓ **N CONNECTOR**  
Available N Male straight or elbow and N Female straight bulkhead

## NOMENCLATURE

- a Frequency / System**
- |   |                           |
|---|---------------------------|
| A | 1575.42 MHz / GPS-GLONASS |
| B | 1621 MHz / IRIDIUM        |
- b Antenna connection**
- |   |          |
|---|----------|
| 3 | N Female |
| C | N Male   |
- c Antenna mounting**
- |   |                                    |
|---|------------------------------------|
| S | Straight (vertical)                |
| R | Elbow (90°, only N Male connector) |

ANH  $\frac{A}{a}$  -  $\frac{C}{b}$  N  $\frac{S}{c}$  E

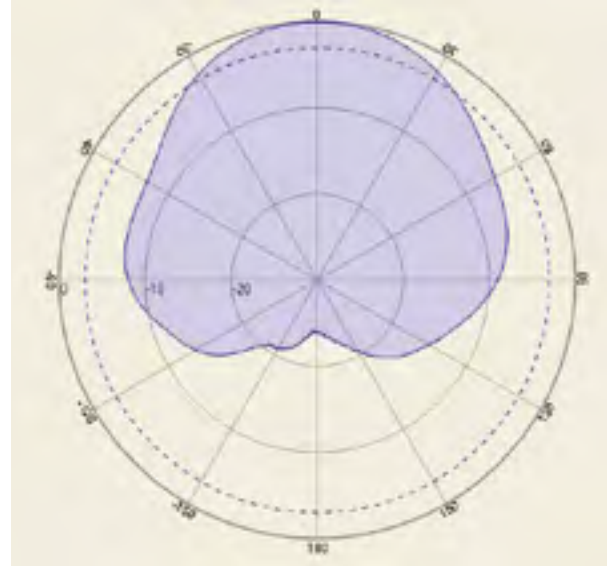
# SPECIFICATIONS

<b>Polarization</b>	Right Hand Circular (RHCP)
<b>Connector</b>	N Male or Female brass nickel plated
<b>Material</b>	Fiberglass
<b>Ambient temp. range</b>	-40°C (-40°F) +80C (+176F)

**ANHA Receiving Frequency** 1575.42 MHz GPS/GLONASS Systems

**ANHB Center Frequency** 1621 MHz IRIDIUM Systems

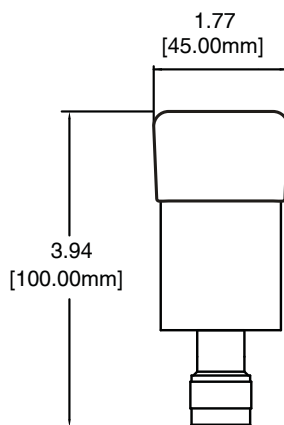
	ANHA	ANHB
<b>-10dB Bandwidth</b>	15 MHz	9 MHz
<b>Impedance</b>	50Ω	50Ω
<b>VSWR</b>	1.5	1.5
<b>Gain (@ Zenith)</b>	4.50 dBic	4.00 dBic
<b>Polarization</b>	RHCP	RHCP
<b>Frequency temperature coefficient</b>	20 ppm/°C	20 ppm/°C



Radiation pattern

## DIMENSIONAL DRAWINGS

ANHAA-\_NSI  
ANHBA-\_NSI



ANHAA-CNRI  
ANHBA-CNRI

