SOLEXY WIRELESS

HAZ LOC COMPONENTS

DATASHEET

B000006-06

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 most complex aspects of RF design.

Solexy's heavy duty antenna is designed for use in rough environments, meeting the demands of tough applications while being affordable yet durable.

Perfect in combination with our series of antenna barrier, our antennas are now well known throughout the Oil & Gas industry for its quality and performances.

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

FEATURES

DIPOLE DESIGN
This antenna has the signal dependability of a Dipole antenna for applicatio at different frequencies

SIMPLE APPARATUS
All our ANH and ANF have been evaluated and are provided with declaration of being simple apparatus, making them perfect for applications in hazardous locations with IS radio output

DUAL & TRI BAND VERSION
Available for dual band WiFi working at 2.4 and 5 GHz or for tri band Wifi at 2.4, 5 and 6 GHz in a single antenna

ANH HEAVY DUTY DESIGN
Rugged construction allows the use of our antennas in hostile environments where weather and abuse are a factor

FREQUENCY
Available for 868 MHz, 915 MHz and 2.4/5/6 GHz.

N CONNECTOR
Available with N type connector both Male and Female, and with vertical and 90° mounting

CONFORMITY

Simple apparatus statememt of conformity

statement n° FIDI 21.035

The ANH and ANF series satisfy requirements of standards: EN IEC 60079-0:2018 EN 60079-11:2012 for simple apparatus given in clause 5.7 of EN 60079-11 for:

- Gas group IIC, temperature class T6 and EPL Gb
- Dust group IIIC, maximum surface temperature T80°C and EPL Db

And for ambient temperature range: -40°C to +80°C

CONFIGURATION

ANH 5 2 - C N S U
a b c

a – Frequency

4	868 MHz
5	915 MHz
7	2.4 GHz
9	2.4-5 GHz
M	2.4-5-6 GHz

b – Antenna connetion

C	N Male
3	N Female

c - Antenna mounting

S	Straight (vertical)
R	Elbow (90°)

AVAILABLE ACCESSORIES

WALL MOUNTING BRACKET

Antenna wall bracket for remote mounting

COAX CABLE EXTENSIONS

Coax cable with custom connectors and lenght to connect antenna to barrier

SPECIFICATIONS

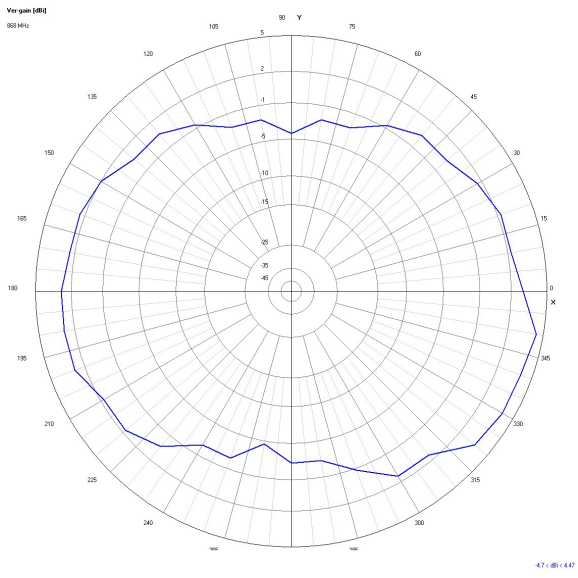
GENERAL	
Radiation	Omni
Polarization	Vertical
Wave	1/2
Connector	N type brass nickel-plated
Material	UV resistant ABS
Temperature range	-40°C (-40°F) to +80°C (+176°F)

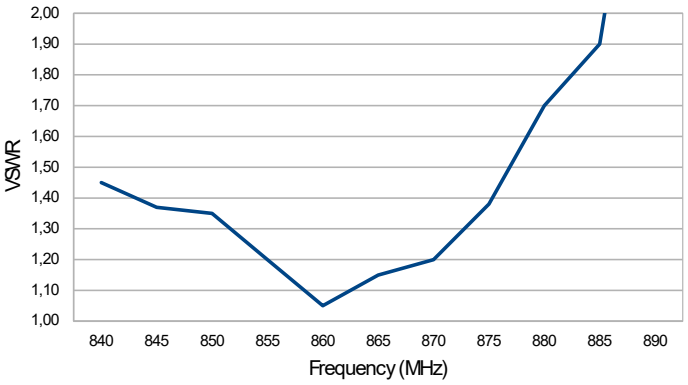
	ANH 42	ANH 52	ANH 72
Frequency	885-883 MHz	902-928 MHz	2.35-2.55 GHz
Impedance (nominal)	50Ω @ 868 MHz	50Ω @ 915 MHz	50Ω @ 2.4 GHz
VSWR (average)	1.14 : 1	1.14 : 1	1.14 : 1
Gain max	2.00 dBi	2.00 dBi	2.00 dBi

	ANH 92	ANH M2
Frequency	2.4 GHz 5 GHz	2.4GHz 5 GHz 6 GHz
Impedance (nominal)	50Ω @ 2.4 GHz 50Ω @ 5 GHz	50Ω @ 2.4 GHz 50Ω @ 5 GHz 50Ω @ 6GHz
VSWR (average)	1.7 : 1 @ 2.4 GHz 2 : 1 @ 5GHz	2.4 : 1 @ 2.4 GHz 2 : 1 @ 5GHz 3.3 : 1 @ 6GHz
Gain max	4.7 dBi @ 2.4 GHz 3.4 dBi @ 5 GHz	2.9 dBi @ 2.4 GHz 2.7 dBi @ 5 GHz 4 dBi @ 6 GHz

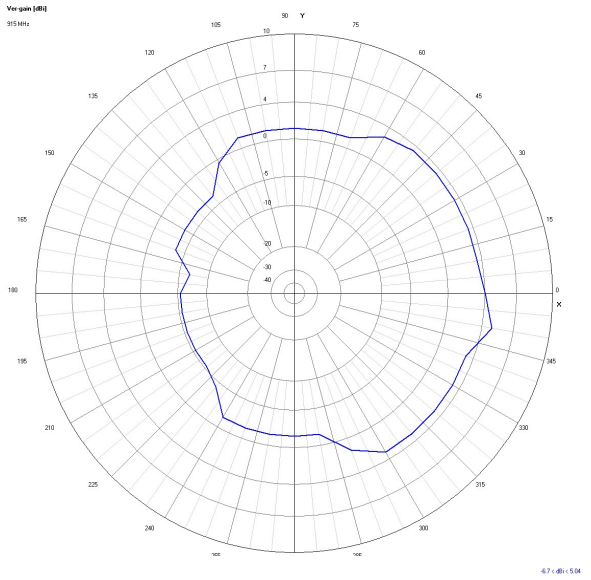
SPECIFICATIONS

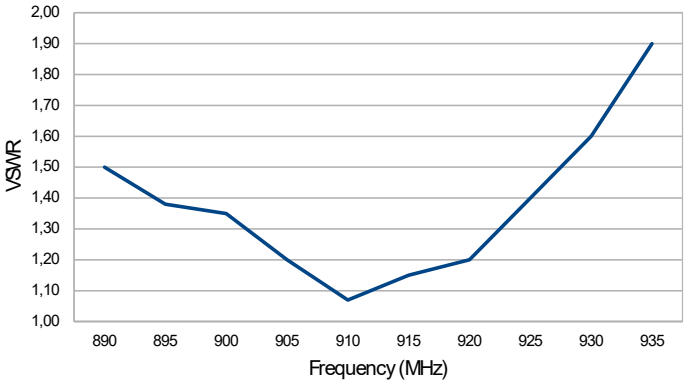
ANH42



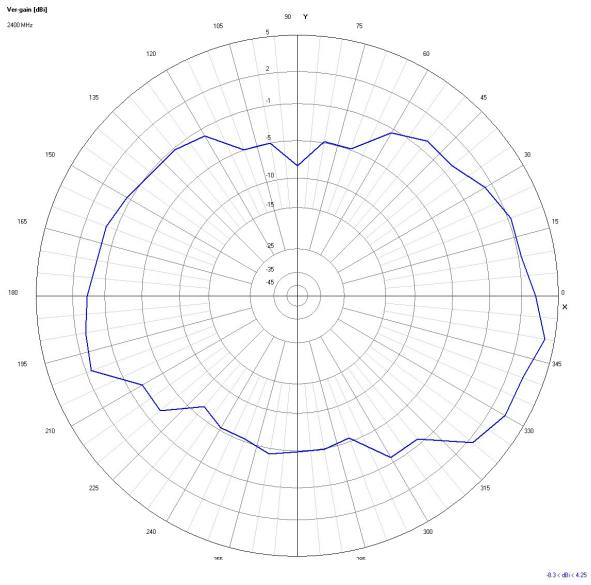


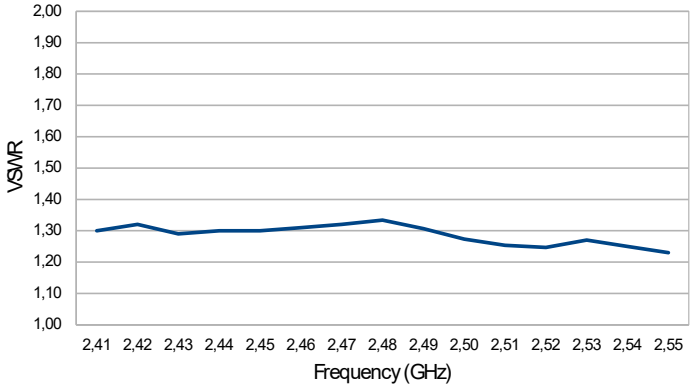
ANH52



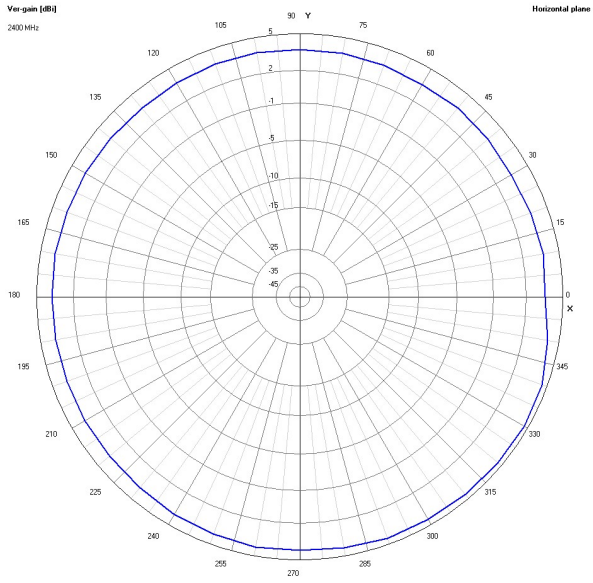


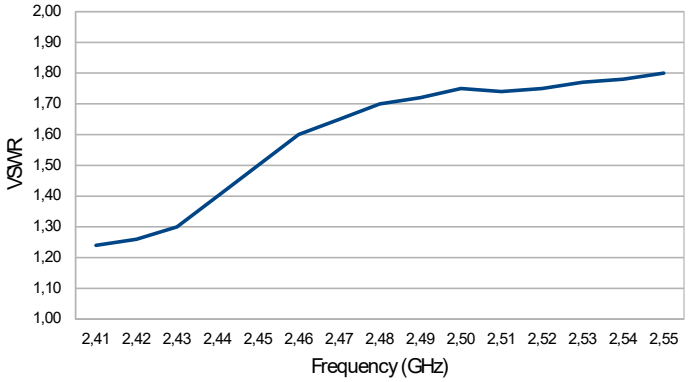
ANH72

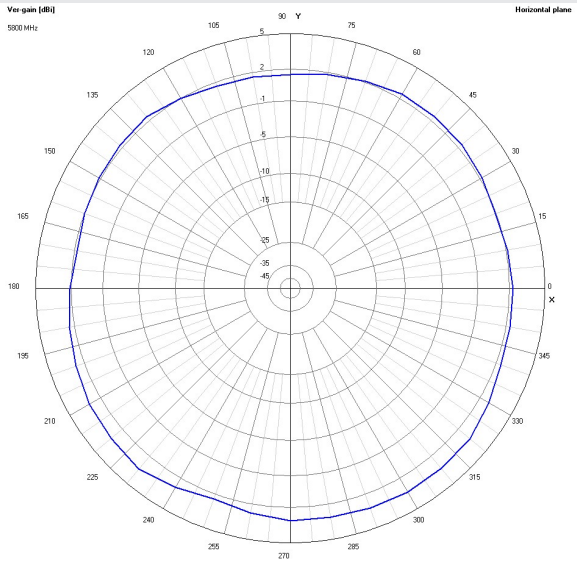


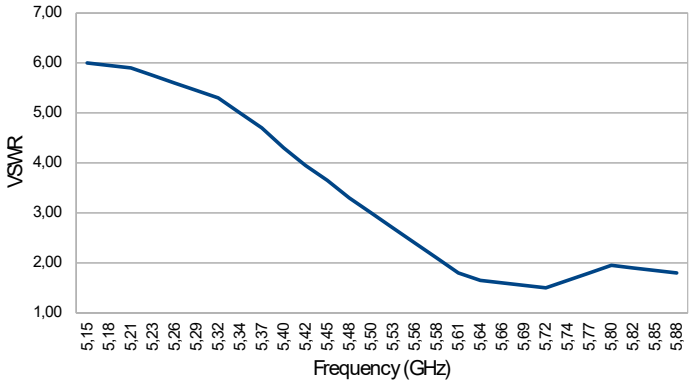


ANH92

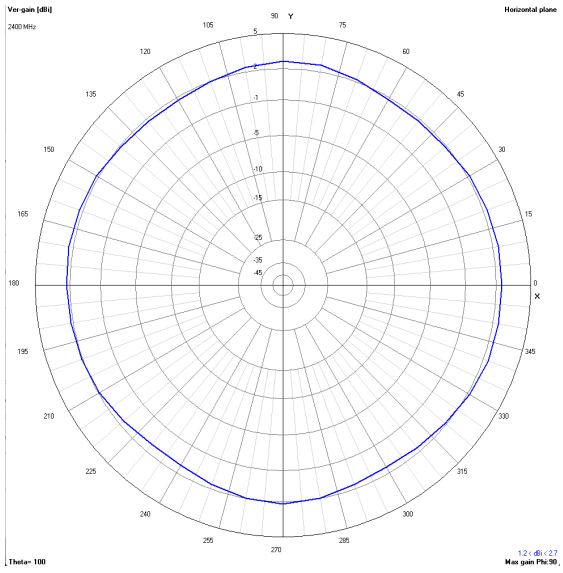


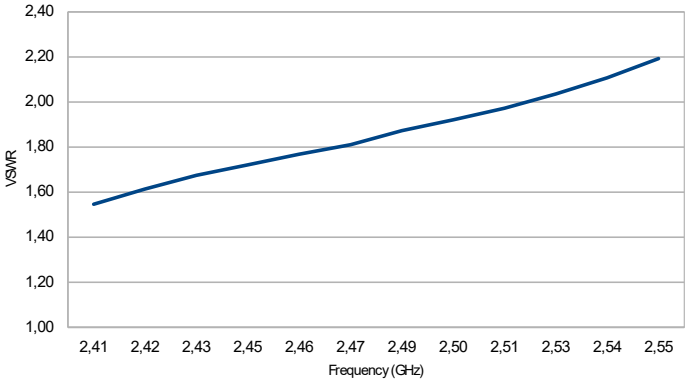


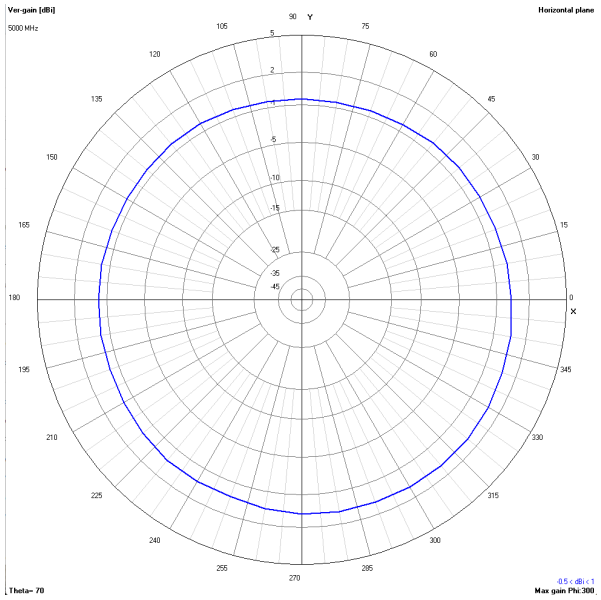


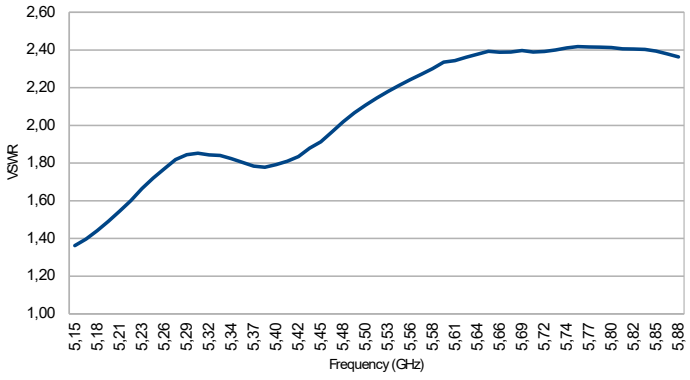


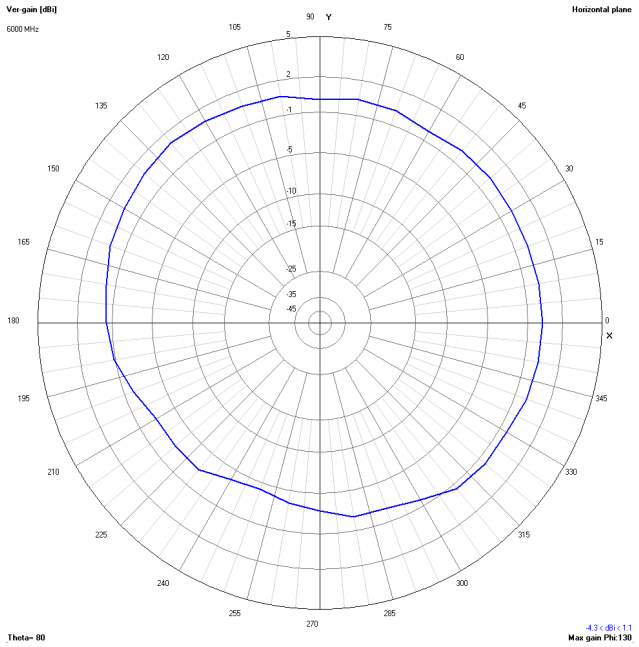
ANHM2

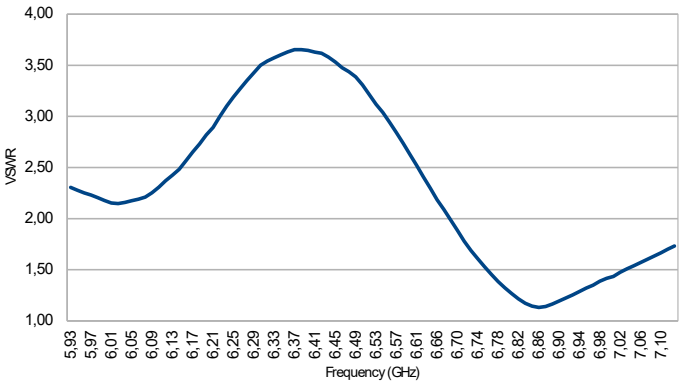




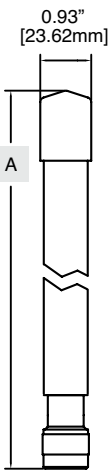








DIMENTIONAL DRAWINGS

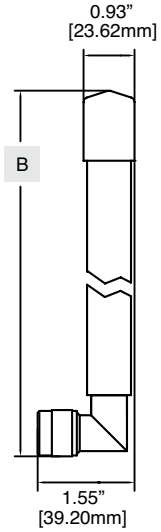


Models

ANH42-CNSU
ANH52-CNSU
ANH72-CNSU
ANH92-CNSS
ANHM2-CNSS

Models

ANH42-CNRU
ANH52-CNRU
ANH72-CNRU
ANH92-CNRS
ANHM2-CNRS



Model	A á å ÅÜ= x ã ã z
ANH42-CNSU	9.05 [230]
ANH52-CNSU	9.05 [230]
ANH72-CNSU	4.92 [125]
ANH92-CNSS	9.05 [230]
ANHM2-CNSS	8.27 [200]

Model	B á å ÅÜ= x ã ã z
ANH42-CNRU	9.44[240]
ANH52-CNRU	9.44 [240]
ANH72-CNRU	5.31 [135]
ANH92-CNRS	9.44 [240]
ANHM2-CNRS	9.05 [210]

INSTALLATION EXAMPLE

The antenna has being designed to be mounted directly on our antenna barrier, and thanks to the N type connector to ensure reliability in the harshest environment

SOLEXY srl
Via Enrico Fermi, 2
25015 Desenzano del Garda (BS) **Italy**
Phone (+39) 030 787.0.787
Email: info@solexy.net

SOLEXY USA, LLC
PO Box 628
West Chester, Ohio 45071 **USA**
Phone: (+1) 513.860.5465
Email: usa@solexy.net

www.solexy.net