



HEAVY DUTY ANTENNA GPS & IRIDIUM 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.

PASSIVE

High gain passive execution to be used in combination with intrinsically safe Solexy antenna couplers

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

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 GPS/GLONASS and IRIDIUM systems

N CONNECTOR

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

CONFORMITY



Simple apparatus statement 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 **A** **A** - **C** **N** **S** **E**
a b c

a - Frequency/system

- A 1575.42 MHz / GPS-GLONASS
- B 1621 MHz / IRIDIUM

b - Antenna connection

- 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

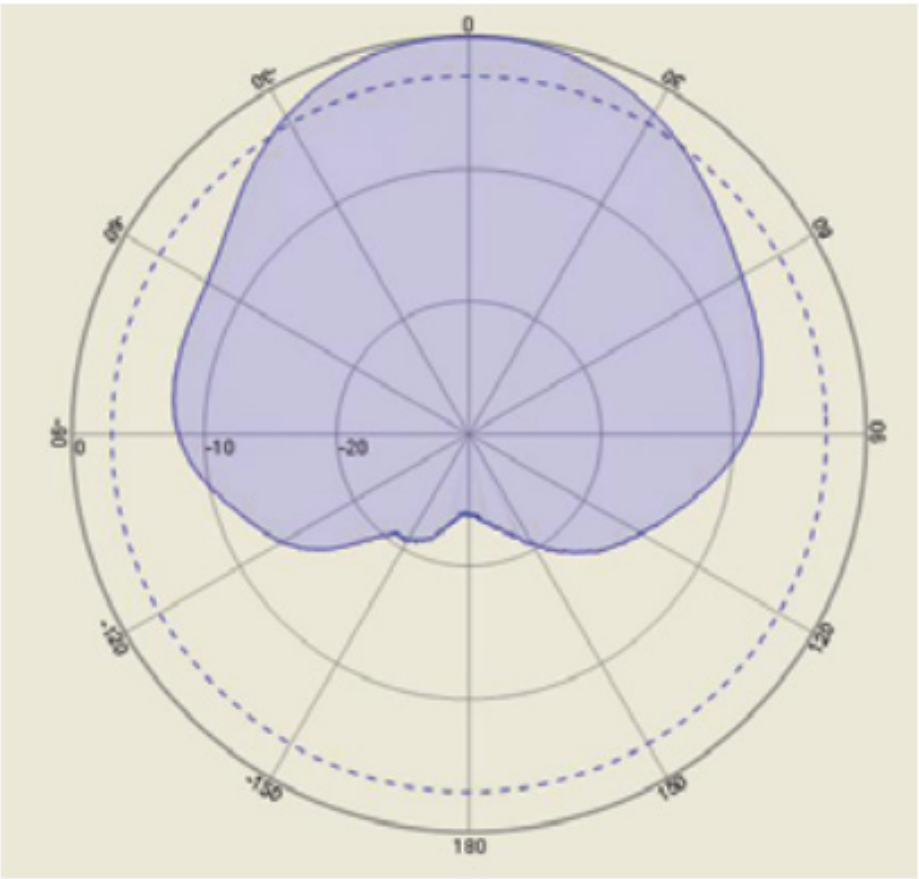
Coax cable with custom connectors and lenght to connect antenna to barrier



SPECIFICATIONS

GENERAL		
Polarization	Right Hand Circular (RHCP)	
Connector	N type brass nickel-plated	
Material	Fiberglass	
Temperature range	-40°C (-40°F) to +80°C (+176°F)	

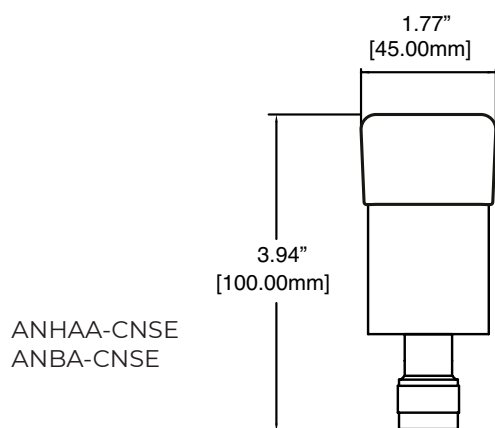
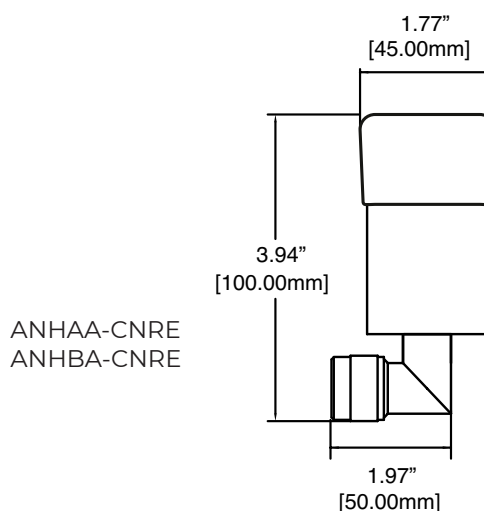
	ANH AA	ANH BA
Frequency	1575.42 MHz GPS/GLONASS	1621 MHz IRIDIUM
Impedance (nominal)	50Ω	50Ω
VSWR	1.5	1.5
Gain (@Zenith)	4.50 dBic	4.00 dBic
Frequency temperature coefficient	20 ppm/°C	20 ppm/°C



Radiation pattern

Data contained in this specification are subject to change without notice





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