

SOLEXY WIRELESS

# HAZ LOC COMPONENTS

**DATASHEET**

B000008-02




# HEAVY DUTY ANTENNA ANF 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 highly flexible antenna is designed for use in tough environments, matching the demands of tough applications while being durable and affordable.

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.

The flexible construction make it ideal for application in which being hit is possible, being sure that after the hit, it comes back up in its meant position.

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

## FEATURES

### FLEX TECHNOLOGY
This highly flexible antenna was designed to meet the requirements of a high traffic environment, one hit and it bounce right back.
It has over 25Kg (55lb) pull strenght

### DIPOLE DESIGN
This antenna has the signal dependability of a Dipole antenna and the flexibility to bounce back from any hit

### 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

### ANF 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 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

**ANF 5 2 - C N S U**
**a b c**

**a – Frequency**

| | |
|---|---|
| 4 | 868 MHz |
| 5 | 915 MHz |
| 7 | 2.4 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

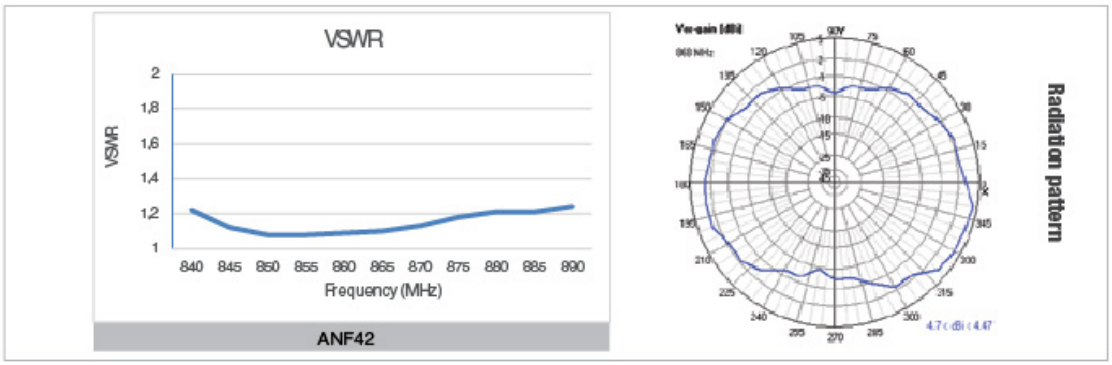
**COAX CABLE EXTENSIONS**

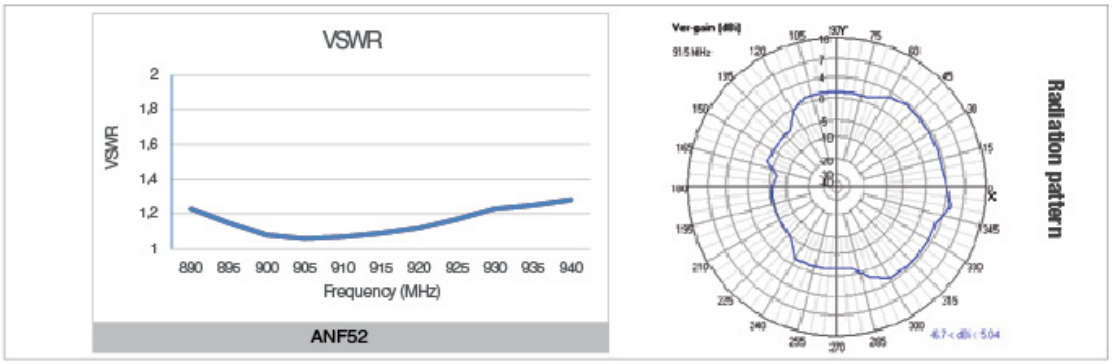
Coax cable with custom connectors and lenght to connect antenna to barrier

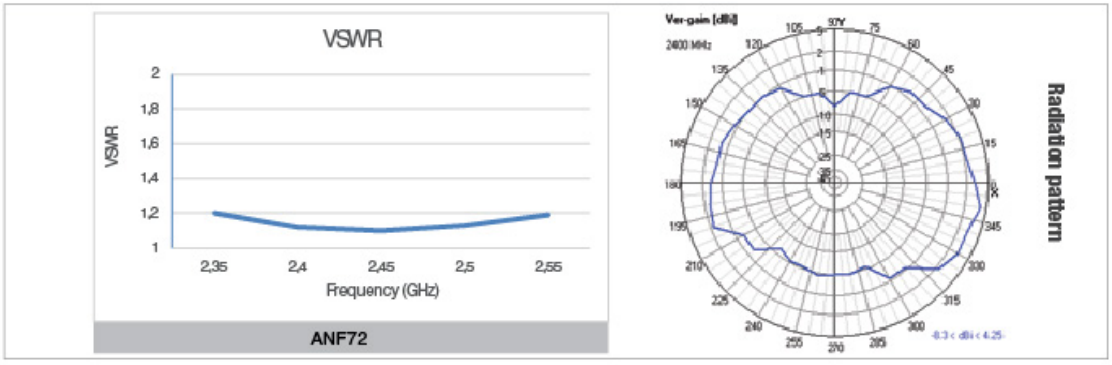
# SPECIFICATIONS

| GENERAL | |
|---|---|
| Radiation | Omni |
| Polarization | Vertical |
| Wave | 1/2 |
| Connector | N type brass nickel-plated |
| Antenna tip | Soft black PVC |
| Adapter | Black derlin |
| Material | UV resistant PUR |
| Temperature range | -40°C (-40°F) to +80°C (+176°F) |

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



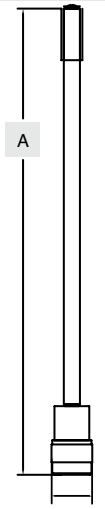




Data contained in this specification are subject to change without notice

# DIMENSIONAL DRAWINGS

**Models**

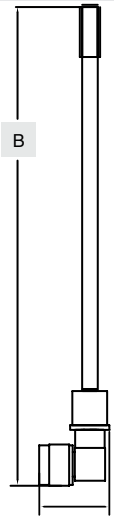
ANF42-CNSU
ANF52-CNSU
ANF72-CNSU




0.79"
[20 mm]

**Models**

ANF42-CNRU
ANF52-CNRU
ANF72-CNRU




1.54"
[39 mm]

| Model | A á å ÅÜ= x ã ã z |
|---|---|
| ANF42-CNSU | 11.18 [284] |
| ANF52-CNSU | 11.18 [284] |
| ANF72-CNSU | 7.08 [180] |

| Model | B á å ÅÜ= x ã ã z |
|---|---|
| ANF42-CNRU | 11.65 [296] |
| ANF52-CNRU | 11.65 [296] |
| ANF72-CNRU | 7.4 [188] |

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# 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





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