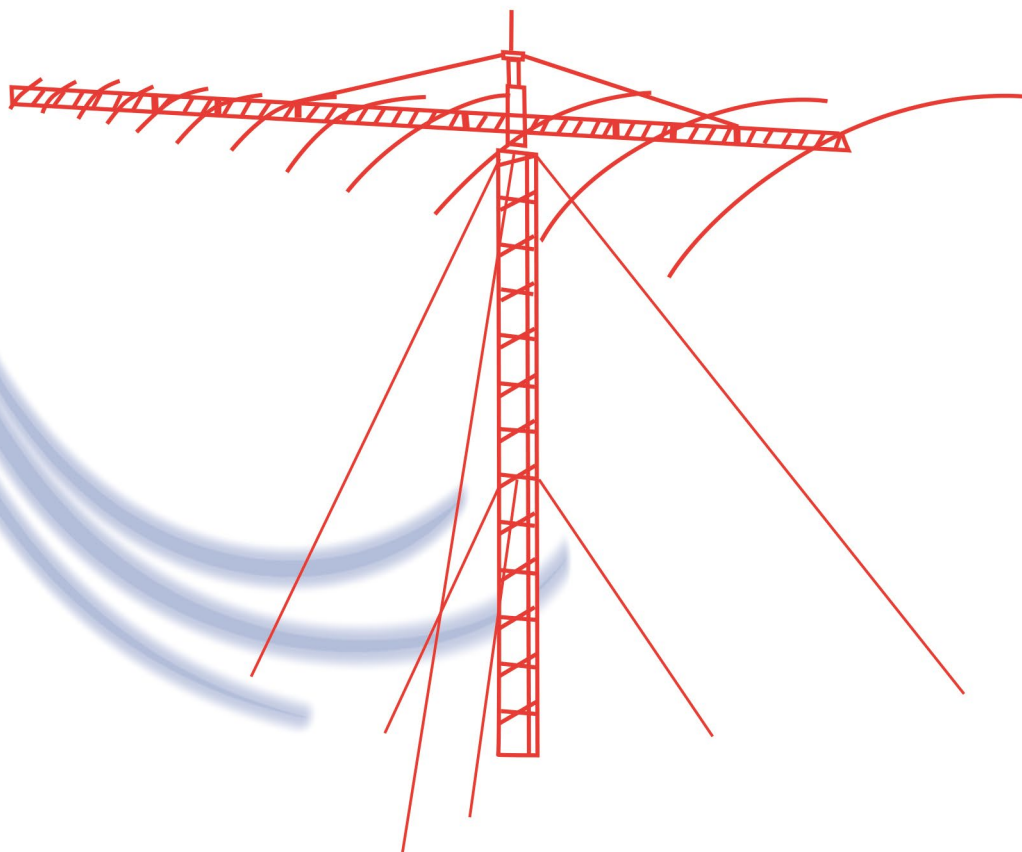


# HF ANTENNAS



=> [Search by Part Number](#)



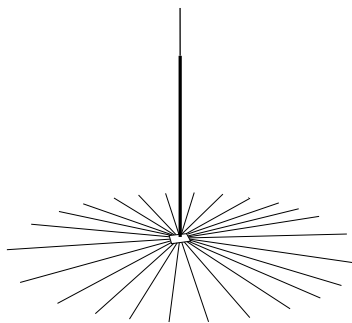


## For Long Range Communications

- ⇒ Robust Construction for Harsh Environment
- ⇒ 100% RF Controlled
- ⇒ Low VSWR for Power Transmission
- ⇒ Tactical Versions for Short Deployment Time

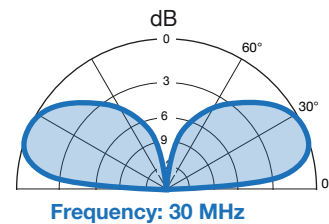
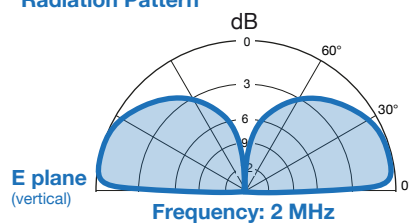
|                     |    |                                                |    |
|---------------------|----|------------------------------------------------|----|
| AFA - VLF / LF / HF | 3  | AHLZ 2.8 - 30T                                 | 16 |
| AOF HF 2 - 30       | 4  | ADA 2 - 10 - 12m                               | 17 |
| AHF FA 5 - 10       | 5  | ADA 2 - 10 - 24m                               | 18 |
| ASD HF 2 - 30       | 6  | HLO 4 - 30                                     | 19 |
| ABC HF 4 - 15       | 7  | UCRA Antenna Rotation Control Unit             | 20 |
| ABC HF 6 - 28       | 8  | Chock Coil Inductor for HLO / AOLOG HF Antenna | 21 |
| BCI HF 2 - 30       | 9  | Rotary Joint EIA 1.5/8"                        | 22 |
| BCI HF 4 - 11       | 10 | 10 kW DPDT Coaxial Switch                      | 23 |
| BCI HF 11 - 28      | 11 | 16 Ways HF Receiver Multicoupler               | 24 |
| AHF MC 10 - 25      | 12 | Ballast concrete slab for antennas             | 25 |
| AHF BHP 3 - 30      | 13 | Coaxial lightning protections                  | 26 |
| ADH / SU25 2 - 30   | 14 | Search by Part Number                          | 27 |
| AHLX 2.8 - 30T      | 15 |                                                |    |

# AFA - VLF / LF / HF

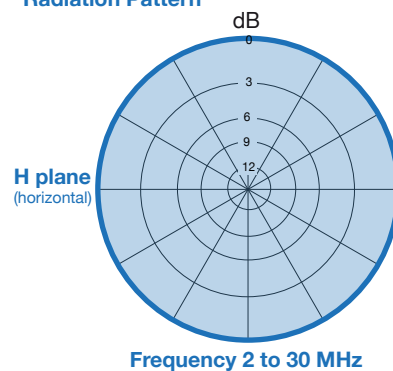


|                   |                      |                      |                                |
|-------------------|----------------------|----------------------|--------------------------------|
| Frequency range   | 10 KHz to 30 MHz     | Height               | 4 m                            |
| Impedance         | 50 $\Omega$          | Standard grounding   | $\varnothing$ 3 m (24 radials) |
| VSWR in the band  | < 7 (2-30 MHz)       | Materials            | AGS - POM C - stainless steel  |
| Polarization      | Vertical             | Weight               | 17 kg                          |
| Radiation pattern |                      | Windspeed resistance | 160 km/h without frost         |
| - E plan          | Medium elevation 15° | Temperature range    | -40° to +70°C                  |
| - H plan          | Omni at $\pm$ 0.5 dB | Color                | White RAL 9010                 |
| Connector         | Nf                   |                      |                                |

**Radiation Pattern**



**Radiation Pattern**

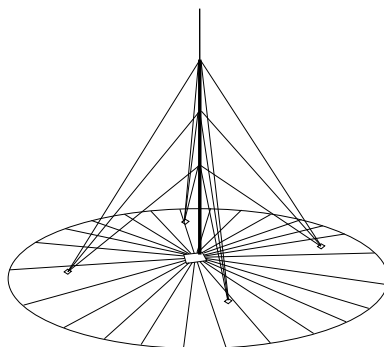


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| P/N     | Model                            |
|---------|----------------------------------|
| 99-0158 | AFA - VLF/LF/HF standard version |



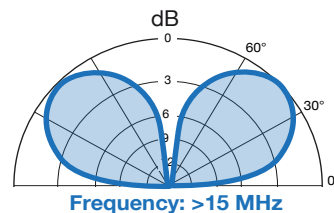
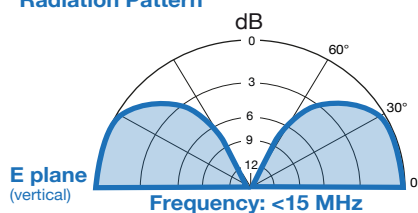
# AOF HF 2 - 30



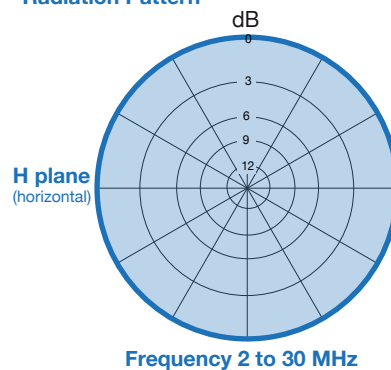
## HF Antennas

|                     |                         |                          |                             |
|---------------------|-------------------------|--------------------------|-----------------------------|
| Frequency range     | 2 to 30 MHz             | Dimensions on ground     |                             |
| Impedance           | 50 $\Omega$             | - Staying                | Ø 10 m                      |
| VSWR in the band    | < 1.5 (with tuning box) | - Standard grounding     | Ø 40 m (24 radials)         |
| Maximum gain        |                         | - High density grounding | Ø 60 m (24 radials)         |
| - at 3 MHz          | 0 dBi                   | Height                   | 12.4 m                      |
| - at 6 MHz          | 2.5 dBi                 | Staying                  | 3 levels of 4 parafil stays |
| - at 15 MHz         | 5 dBi                   | Materials                | AGS - POM C - stainless     |
| Polarization        | Vertical                | Windspeed resistance     | 200 km/h without frost      |
| Radiation pattern   |                         | Temperature range        | -40° to +70°C               |
| - E plan            | Medium elevation 25°    | Color                    | Army green (IR NATO 24x5)   |
| - H plan            | Omni at $\pm 0.5$ dB    |                          |                             |
| Maximum input power | 1 kW cw                 |                          |                             |
| Connector           | N f                     |                          |                             |

Radiation Pattern



Radiation Pattern



[Return to Search by Part Number](#)

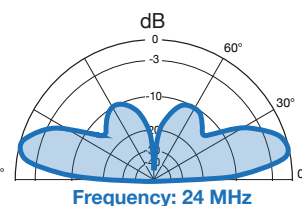
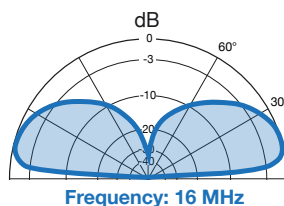
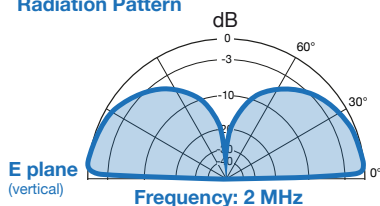
| P/N     | Model                           |
|---------|---------------------------------|
| 99-0046 | AOF HF 2-30<br>standard version |

# AHF FA 5 - 10

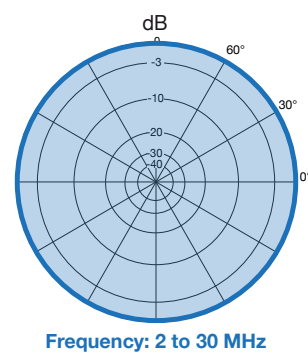


|                   |                |                      |                                 |
|-------------------|----------------|----------------------|---------------------------------|
| Frequency range   | 2 to 30 MHz    | Height               | 7 m                             |
| Impedance         | 50 $\Omega$    | Standard grounding   | $\varnothing$ 30 m (32 radials) |
| VSWR in the band  | < 5 (5-10 MHz) | Material / coating   | AGS / fiberglass                |
| Maximum gain      | 3 - 4.5 dBi    | Windspeed resistance | 200 km/h without frost          |
| Polarization      | Vertical       | Temperature range    | -40° to +70°C                   |
| Radiation pattern | See diagrams   | Color                | Grey RAL 7010                   |
| Connector         | 7-16 f         |                      |                                 |

**Radiation Pattern**



**H plane**  
(horizontal)

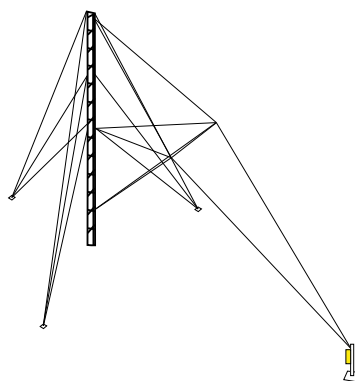


[Return to Search by Part Number](#)

| P/N     | Model                             |
|---------|-----------------------------------|
| 99-0071 | AHF FA 5 - 10<br>standard version |



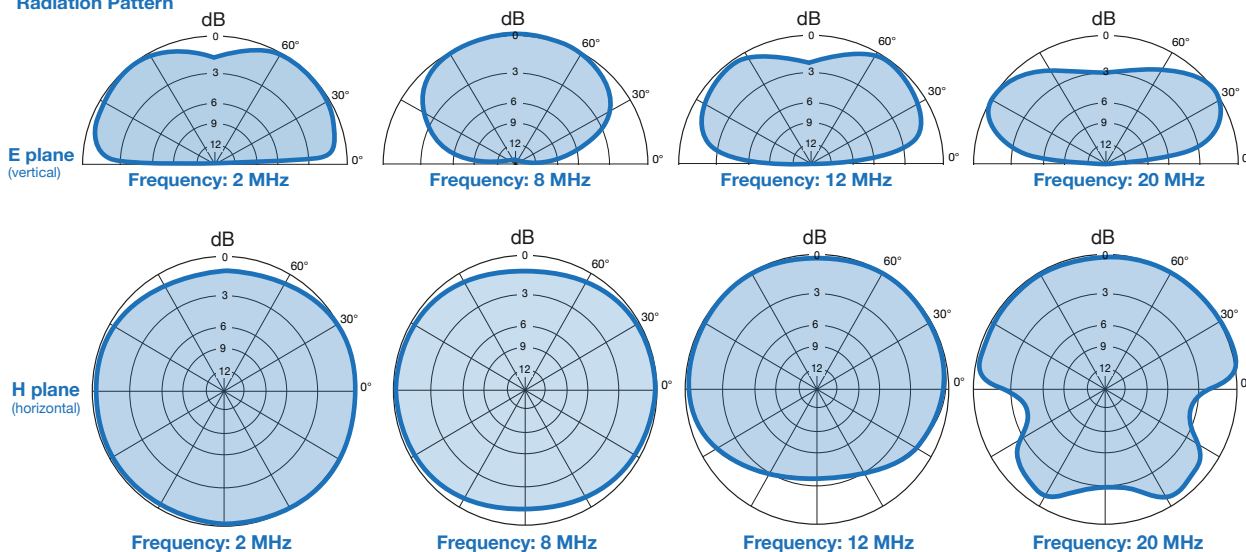
# ASD HF 2 - 30



## HF Antennas

|                     |              |                          |                        |
|---------------------|--------------|--------------------------|------------------------|
| Frequency range     | 2 to 30 MHz  | Dimensions on ground     |                        |
| Impedance           | 50 $\Omega$  | Trapezium (LB x SB x H)  | 8 x 6 x 36 m           |
| VSWR in the band    | < 2.5        | Mast height              |                        |
| Maximum gain        |              | - standard version       | 16 m                   |
| - at 3 MHz          | - 8 dBi      | - tactical version       | 12 m                   |
| - at 6 MHz          | - 1 dBi      |                          |                        |
| - at 15 MHz         | + 4 dBi      |                          |                        |
| Polarization        | Horizontal   | Staying                  |                        |
| Radiation pattern   | see diagrams | - standard version       | 4 levels of 3 stays    |
| Maximum input power | 1 kW cw      | - tactical version       | 3 levels of 4 stays    |
| Connector           | Nf           | Radiating array material | Stainless steel cables |
|                     |              | Windspeed resistance     | 200 km/h without frost |
|                     |              | Temperature range        | -40° to +70°C          |

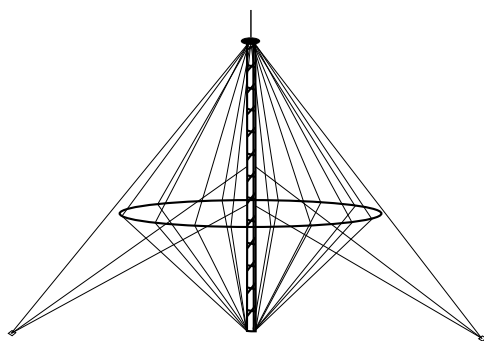
### Radiation Pattern



### Return to Search by Part Number

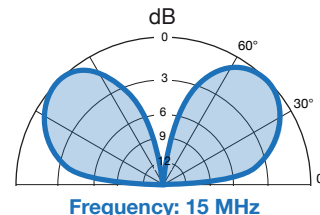
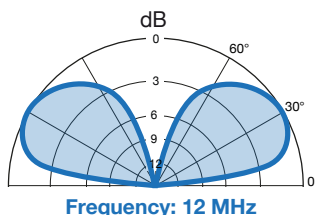
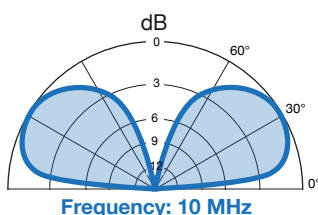
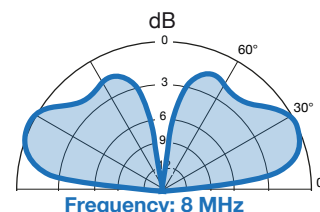
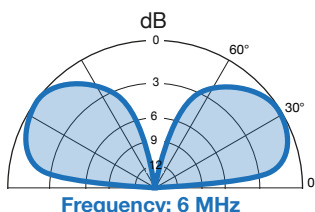
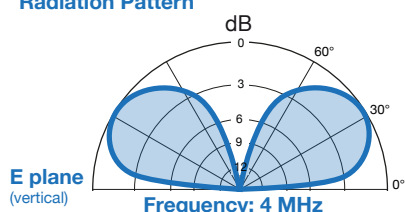
| P/N     | Model                          |
|---------|--------------------------------|
| 99-0028 | ASD HF 2-30 standard version   |
| 99-0029 | ASD HF 2-30-T tactical version |

# ABC HF 4 - 15

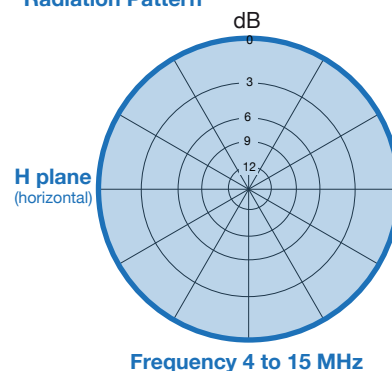


|                                     |                              |                          |                                 |
|-------------------------------------|------------------------------|--------------------------|---------------------------------|
| Frequency range                     | 4 to 15 MHz                  | Dimensions on ground     |                                 |
| Impedance                           | 50 $\Omega$                  | - Staying                | $\varnothing$ 16.5 m            |
| VSWR in the band                    | < 2.5                        | - Standard grounding     | $\varnothing$ 46 m (32 radials) |
| Maximum gain                        |                              | - High density grounding | $\varnothing$ 60 m (60 radials) |
| - Standard artificial grounding     | 3 - 4 dBi                    | Mast height              | 12 m                            |
| - High density artificial grounding | 5 - 6 dBi                    | Staying                  | 2 levels of 3 parafil stays     |
| Polarization                        | Vertical                     | Radiating array material | Stainless steel cables          |
| Radiation pattern                   | see diagrams                 | Windspeed resistance     | 200 km/h without frost          |
| Maximum input power                 | 5 kW cw (option 10kW)        | Temperature range        | -40° to +70°C                   |
| Connector                           | EIA 7/8" (option EIA 1.5/8") |                          |                                 |

## Radiation Pattern



## Radiation Pattern



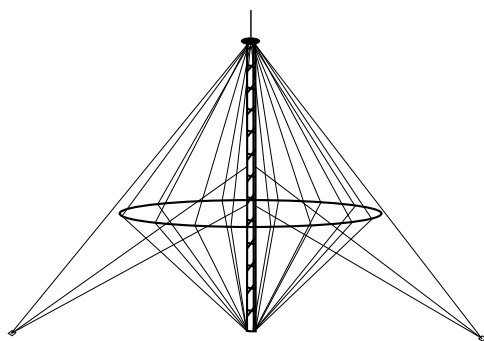
[Return to Search by Part Number](#)

| P/N     | MODEL                           |
|---------|---------------------------------|
| 99-0206 | ABC HF 4-15<br>standard version |



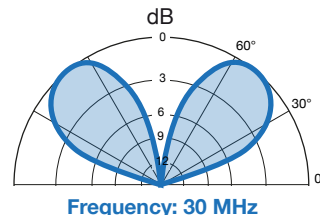
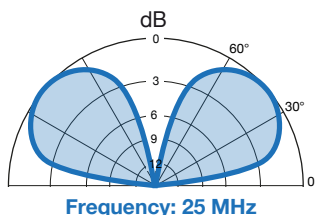
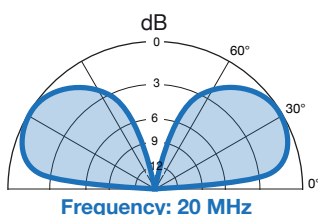
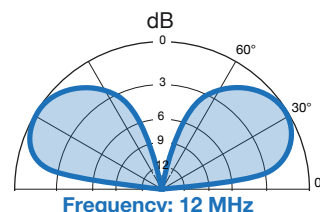
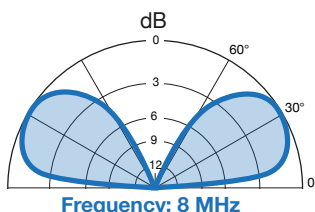
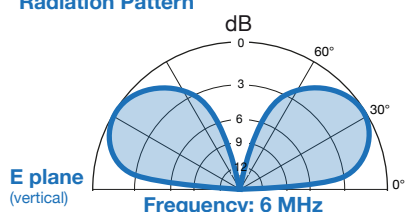


# ABC HF 6 - 28

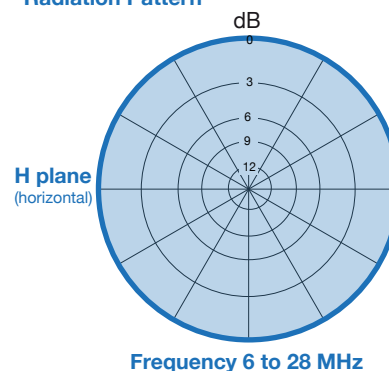


|                                     |                         |                          |                                 |
|-------------------------------------|-------------------------|--------------------------|---------------------------------|
| Frequency range                     | 6 to 28 MHz             | Dimensions on ground     |                                 |
| Impedance                           | 50 $\Omega$             | - Staying                | $\varnothing$ 12.5 m            |
| VSWR in the band                    | < 2.5                   | - Standard grounding     | $\varnothing$ 38 m (24 radials) |
| Maximum gain                        |                         | - High density grounding | $\varnothing$ 60 m (36 radials) |
| - Standard artificial grounding     | 4 - 5 dBi               | Mast height              | 7 m                             |
| - High density artificial grounding | 5 - 6 dBi               | Staying                  | 2 levels of 3 parafil stays     |
| Polarization                        | Vertical                | Radiating array material | Stainless steel cables          |
| Radiation pattern                   | see diagrams            | Windspeed resistance     | 200 km/h without frost          |
| Maximum input power                 | 5 kW cw (option 10kW)   | Temperature range        | -40° to +70°C                   |
| Connector                           | 7-16f (option EIA 7/8") |                          |                                 |

Radiation Pattern



Radiation Pattern

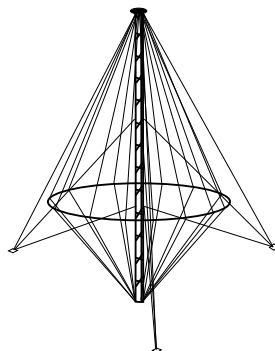


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| P/N     | MODEL                           |
|---------|---------------------------------|
| 99-0044 | ABC HF 6-28<br>standard version |

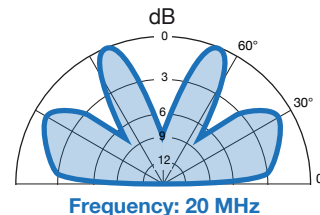
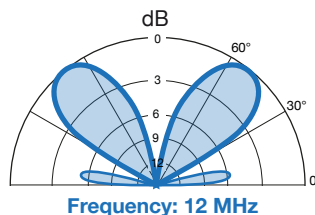
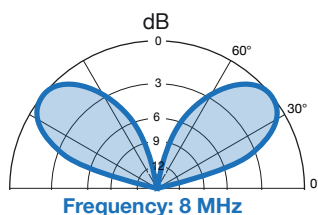
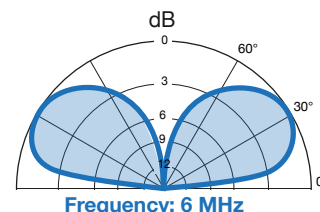
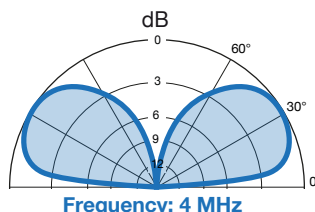
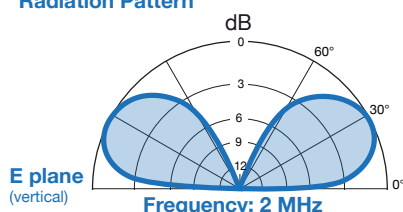


# BCI HF 2 - 30

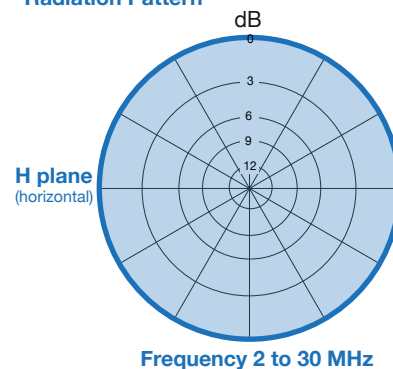


|                                     |                              |                          |                                  |
|-------------------------------------|------------------------------|--------------------------|----------------------------------|
| Frequency range                     | 2 to 30 MHz                  | Dimensions on ground     |                                  |
| Impedance                           | 50 $\Omega$                  | - Staying                | $\varnothing$ 39 m               |
| VSWR in the band                    | < 2.0                        | - Standard grounding     | $\varnothing$ 90 m (32 radials)  |
| Maximum gain                        |                              | - High density grounding | $\varnothing$ 120 m (60 radials) |
| - Standard artificial grounding     | 3 - 4 dBi                    | Mast height              | 33 m                             |
| - High density artificial grounding | 5 - 6 dBi                    | Staying                  | 3 levels of 3 parafil stays      |
| Polarization                        | Vertical                     | Radiating array material | Stainless steel cables           |
| Radiation pattern                   | see diagrams                 | Windspeed resistance     | 200 km/h without frost           |
| Maximum input power                 | 5 kW cw (option 10 kW)       | Temperature range        | -40° to +70°C                    |
| Connector                           | EIA 7/8" (option EIA 1.5/8") |                          |                                  |

## Radiation Pattern



## Radiation Pattern

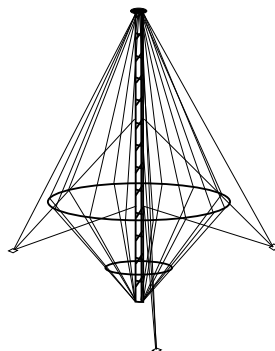


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| P/N     | MODEL                           |
|---------|---------------------------------|
| 99-0092 | BCI HF 2-30<br>standard version |



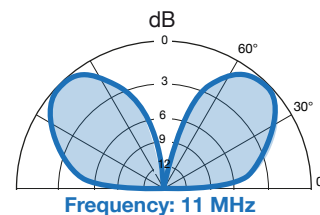
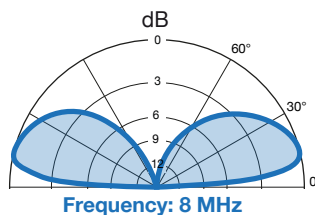
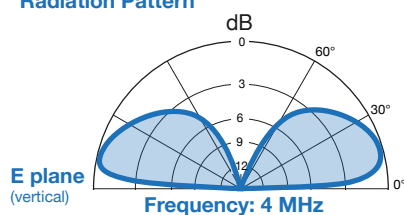
# BCI HF 4 - 11



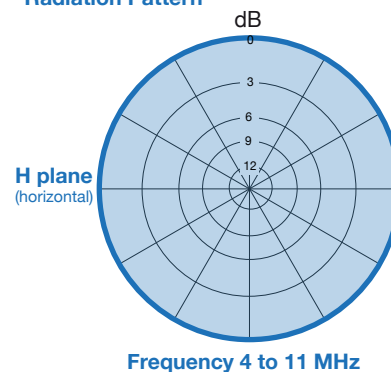
## HF Antennas

|                                     |                              |                          |                             |
|-------------------------------------|------------------------------|--------------------------|-----------------------------|
| Frequency range                     | 4 to 11 MHz                  | Dimensions on ground     |                             |
| Impedance                           | 50 $\Omega$                  | - Staying                | Ø 20 m                      |
| VSWR in the band                    | < 2                          | - Standard grounding     | Ø 100 m (60 radials)        |
| Maximum gain                        |                              | - High density grounding | Ø 100 m (120 radials)       |
| - Standard artificial grounding     | 3 - 4 dBi                    | Mast height              | 20 m                        |
| - High density artificial grounding | 5 - 6 dBi                    | Staying                  | 4 levels of 3 parafil stays |
| Polarization                        | Vertical                     | Radiating array material | Stainless steel cables      |
| Radiation pattern                   | see diagrams                 | Windspeed resistance     | 200 km/h without frost      |
| Maximum input power                 | 5 kW cw (option 10 kW)       | Temperature range        | -40° to +70°C               |
| Connector                           | EIA 7/8" (option EIA 1.5/8") |                          |                             |

Radiation Pattern



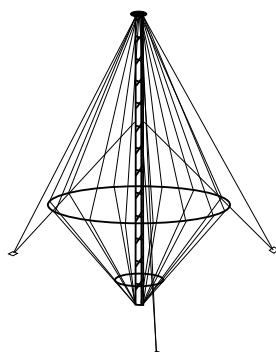
Radiation Pattern



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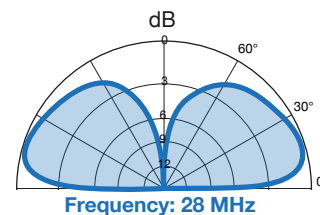
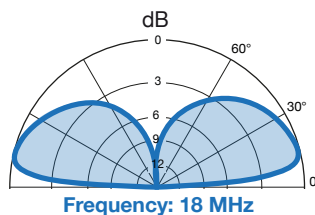
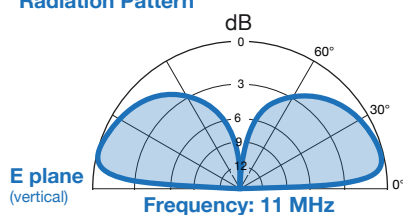
| P/N     | MODEL                           |
|---------|---------------------------------|
| 99-0079 | BCI HF 4-11<br>standard version |

# BCI HF 11 - 28

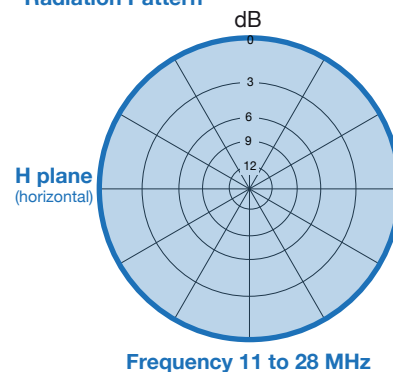


|                                     |                              |                          |                             |
|-------------------------------------|------------------------------|--------------------------|-----------------------------|
| Frequency range                     | 11 to 28 MHz                 | Dimensions on ground     |                             |
| Impedance                           | 50 $\Omega$                  | - Staying                | Ø 7 m                       |
| VSWR in the band                    | < 2.0                        | - Standard grounding     | Ø 40 m (60 radials)         |
| Maximum gain                        |                              | - High density grounding | Ø 40 m (60 radials)         |
| - Standard artificial grounding     | 3 - 4 dBi                    | Mast height              | 33 m                        |
| - High density artificial grounding | 5 - 6 dBi                    | Staying                  | 2 levels of 3 parafil stays |
| Polarization                        | Vertical                     | Radiating array material | Stainless steel cables      |
| Radiation pattern                   | see diagrams                 | Windspeed resistance     | 200 km/h without frost      |
| Maximum input power                 | 5 kW cw (option 10 kW)       | Temperature range        | -40° to +70°C               |
| Connector                           | EIA 7/8" (option EIA 1.5/8") |                          |                             |

**Radiation Pattern**



**Radiation Pattern**

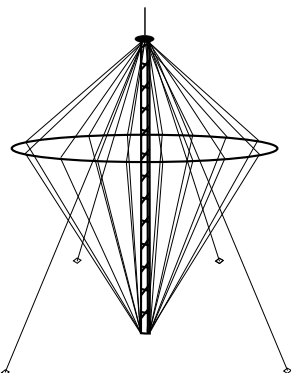


[Return to Search by Part Number](#)

| P/N     | MODEL                            |
|---------|----------------------------------|
| 99-0080 | BCI HF 11-28<br>standard version |

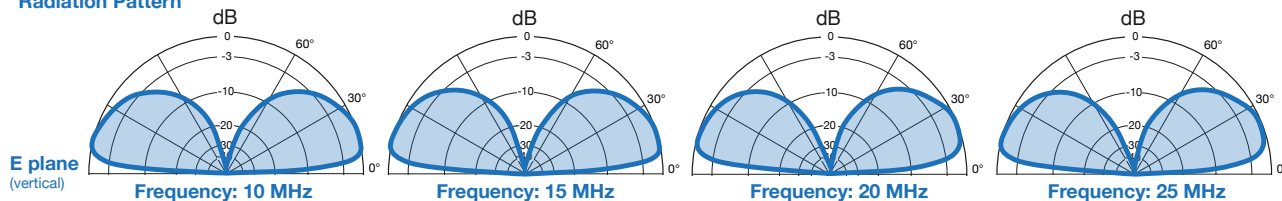


# AHF MC 10 - 25

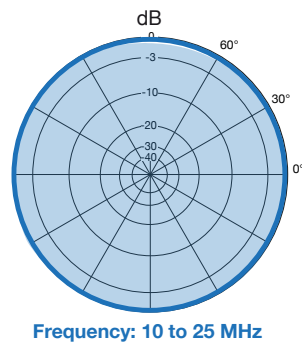


|                                 |              |                          |                                 |
|---------------------------------|--------------|--------------------------|---------------------------------|
| Frequency range                 | 10 to 30 MHz | Dimensions on ground     |                                 |
| Impedance                       | 50 $\Omega$  | - Staying                | $\varnothing$ 8 m               |
| VSWR in the band                | < 2          | - Standard grounding     | $\varnothing$ 30 m (60 radials) |
| Maximum gain                    |              | Mast height              | 6 m                             |
| - Standard artificial grounding | 3 - 5 dBi    | Staying                  | 1 level of 3 parafil stays      |
| Polarization                    | Vertical     | Radiating array material | Stainless steel cables          |
| Radiation pattern               | see diagrams | Windspeed resistance     | 160 km/h without frost          |
| Maximum input power             | 5 kW cw      | Temperature range        | -40° to +70°C                   |
| Connector                       | 7-16 f       |                          |                                 |

**Radiation Pattern**



**H plane (horizontal)**

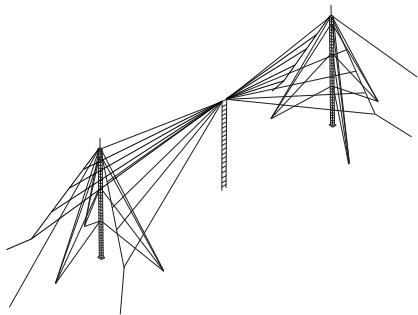


[Return to Search by Part Number](#)

| P/N     | MODEL                            |
|---------|----------------------------------|
| 99-0053 | AHF MC 10-25<br>standard version |



# AHF BHP 3 - 30

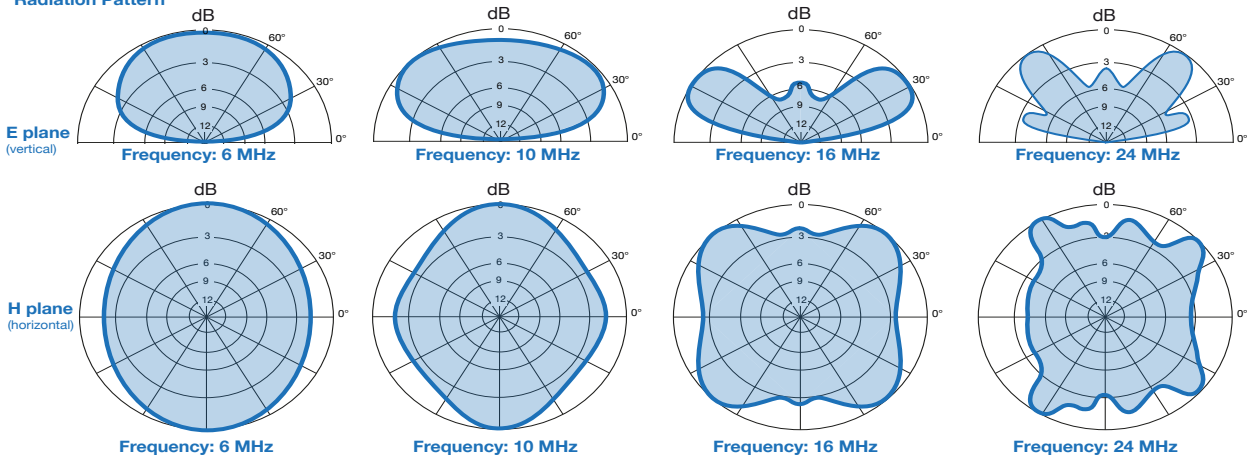


HF Antennas



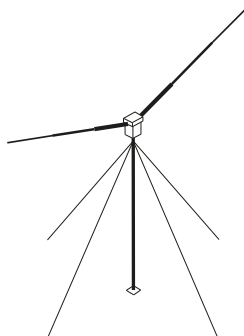
|                     |                        |                          |                             |
|---------------------|------------------------|--------------------------|-----------------------------|
| Frequency range     | 3 to 30 MHz            | Dimensions on the ground | 75 x 35 m                   |
| Impedance           | 50 Ω                   | Staying                  | Ø 20 m                      |
| VSWR in the band    | < 2.5                  | Mast height              | 15 m                        |
| Gain                | 6 to 8 dBi             | Mast spacing             | 45 m                        |
| Polarization        | Horizontal             | Staying                  | 3 levels of 3 parafil stays |
| Radiation pattern   | see diagrams           | Radiating array material | Stainless steel cables      |
| Maximum input power | 400 W cw (option 10kW) | Windspeed resistance     | 160 km/h without frost      |
| Connector           | Nf (option EIA 1"5/8)  | Temperature range        | -40° to +70°C               |

Radiation Pattern



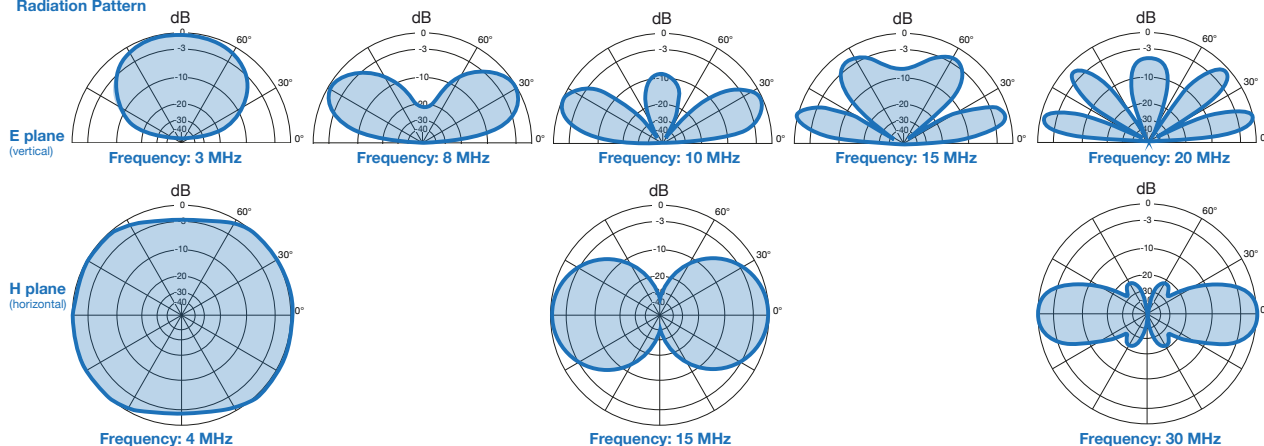
[Return to Search by Part Number](#)

| P/N     | MODEL                              |
|---------|------------------------------------|
| 99-0168 | AHF BHP 3-30 T<br>standard version |



|                     |                                             |                               |                            |
|---------------------|---------------------------------------------|-------------------------------|----------------------------|
| Frequency range     | 2 - 30 or 3 - 30 MHz                        | Mast height                   | 6 m                        |
| Impedance           | 50 $\Omega$                                 | Staying                       | Ø 8 m                      |
| VSWR in the band    | < 1.5 with tuning box                       | Staying                       | 1 level of 4 parafil stays |
| Isotopic gain       | 0 dBi (F = 2 MHz)<br>2 to 7 dBi (F > 3 MHz) | Deployment time (3 operators) | 2 hours                    |
| Polarization        | Horizontal                                  | Windspeed resistance          | 160 km/h without frost     |
| Radiation pattern   | see diagrams                                | Temperature range             | -30° to +70°C              |
| Maximum input power | 150 W cw (option 1 kW)                      | Color                         | Grey RAL 7038              |
| Switching time      | < 10 ms                                     |                               |                            |
| Connector           | N f                                         |                               |                            |

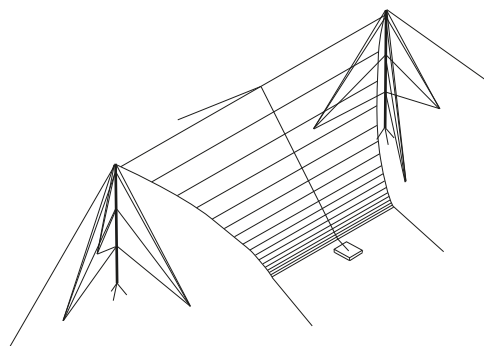
Radiation Pattern



[Return to Search by Part Number](#)

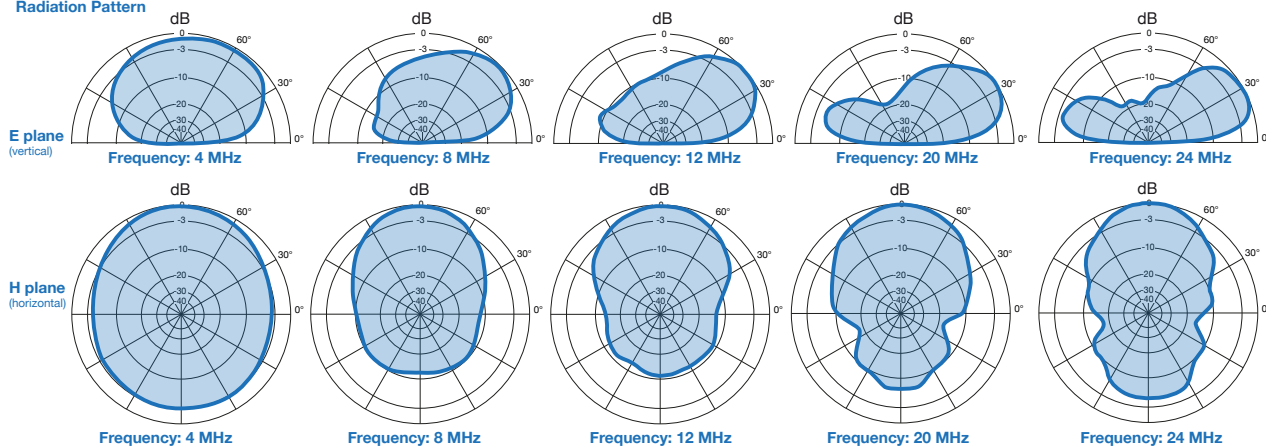
| P/N     | MODEL                            | Frequency range (MHz) |
|---------|----------------------------------|-----------------------|
| 99-0169 | ADH / SU25 3-30 standard version | 3 - 30                |
| 99-0170 | ADH / SU25 2-30 standard version | 2 - 30                |

# AHLX 2.8 - 30T



|                     |                         |                               |                           |
|---------------------|-------------------------|-------------------------------|---------------------------|
| Frequency range     | 2.8 to 30 MHz           | Dimensions on ground          |                           |
| Impedance           | 50 $\Omega$             | Trapezium (LB x SB x H)       | 77 x 25 x 41 m            |
| VSWR in the band    | < 2.8                   | Staying                       | $\varnothing$ 10 m        |
| Maximum gain        | 6 - 8.5 dBi             | Mast height                   | 21 m                      |
| Polarization        | Horizontal              | Staying                       | 4 levels of 3 stays       |
| Radiation pattern   | see diagrams            | Radiating array material      | Stainless steel cables    |
| Maximum input power | 10 kW cw (option 1 kW)  | Deployment time (6 operators) | 2 hours                   |
| Connector           | EIA 1.5/8" (option N f) | Windspeed resistance          | 120 km/h without frost    |
|                     |                         | Temperature range             | -40° to +70°C             |
|                     |                         | Color                         | Army green (IR NATO 24x5) |

## Radiation Pattern



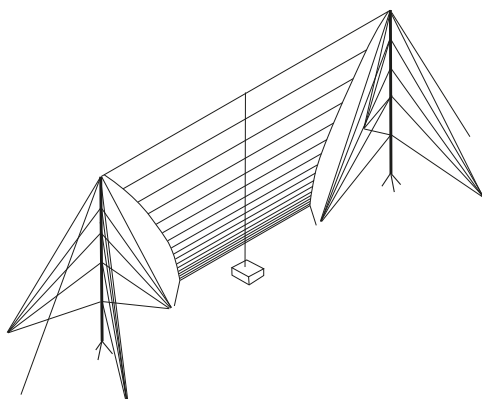
## Return to Search by Part Number

| P/N     | MODEL                              |
|---------|------------------------------------|
| 99-0143 | AHLX 2.8-30T 10kW tactical version |
| 99-0145 | AHLX 2.8-30T 1kW tactical version  |





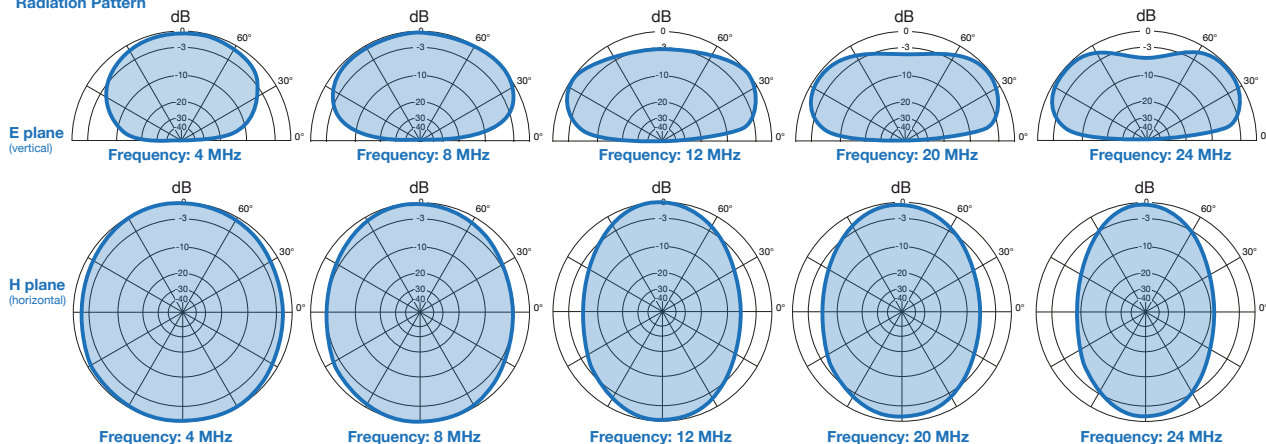
# AHLZ 2.8 - 30T



## HF Antennas

|                     |                         |                               |                           |
|---------------------|-------------------------|-------------------------------|---------------------------|
| Frequency range     | 2.8 to 30 MHz           | Dimensions on ground          | 78 x 23 m                 |
| Impedance           | 50 Ω                    | Standard grounding            | Ø 30 m (24 radials)       |
| VSWR in the band    | < 2.6                   | Staying                       | Ø 12 m                    |
| Maximum gain        | 6 - 8.5 dBi             | Mast height                   | 26 m                      |
| Polarization        | Horizontal              | Staying                       | 5 levels of 3 stays       |
| Radiation pattern   | see diagrams            | Radiating array material      | Stainless steel cables    |
| Maximum input power | 10 kW cw (option 1 kW)  | Deployment time (6 operators) | 2 hours                   |
| Connector           | EIA 1.5/8" (option N f) | Windspeed resistance          | 120 km/h without frost    |
|                     |                         | Temperature range             | -40° to +70°C             |
|                     |                         | Color                         | Army green (IR NATO 24x5) |

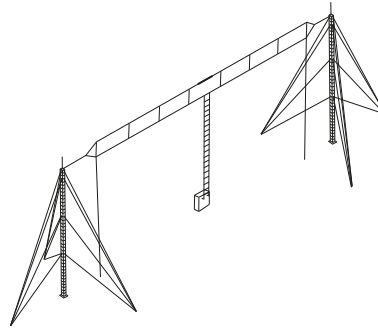
### Radiation Pattern



### Return to Search by Part Number

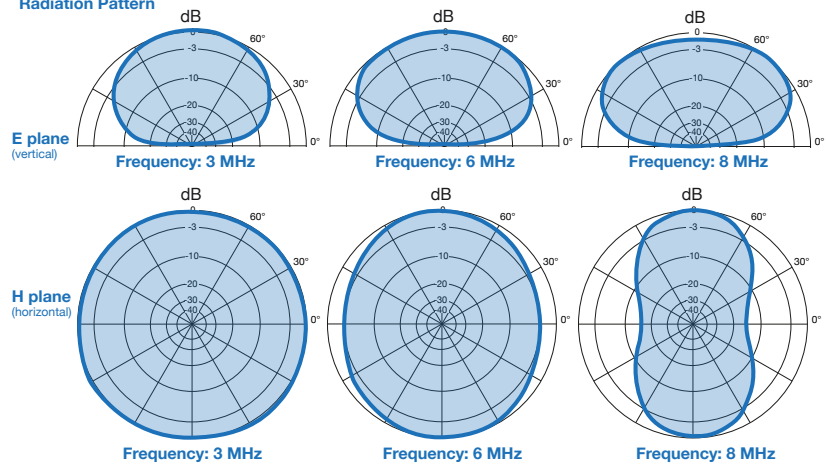
| P/N     | MODEL                              |
|---------|------------------------------------|
| 99-0144 | AHLZ 2.8-30T 10kW tactical version |
| 99-0146 | AHLZ 2.8-30T 1kW tactical version  |

# ADA 2 - 10 - 12m



|                     |              |                          |                             |
|---------------------|--------------|--------------------------|-----------------------------|
| Frequency range     | 2 to 10 MHz  | Dimensions on ground     | 58 x 13 m                   |
| Impedance           | 50 $\Omega$  | Staying                  | $\varnothing$ 12 m          |
| VSWR in the band    | < 3          | Height                   | 12 m                        |
| Maximum gain        |              | Staying                  | 3 levels of 3 parafil stays |
| - at 2 MHz          | -4 dBi       | Radiating array material | Stainless steel cables      |
| - at 4 MHz          | +4 dBi       | Windspeed resistance     | 160 km/h without frost      |
| - at 10 MHz         | +3 dBi       | Temperature range        | -40° to +70°C               |
| Polarization        | Horizontal   | Color                    | ICAO Red / White            |
| Radiation pattern   | See diagrams |                          |                             |
| Maximum input power | 1 kW cw      |                          |                             |
| Connector           | N f          |                          |                             |

Radiation Pattern



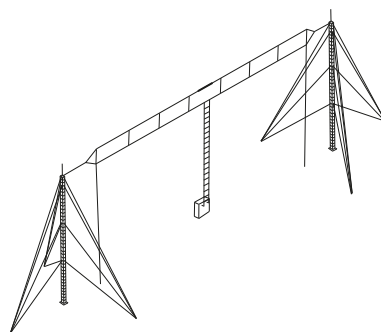
[Return to Search by Part Number](#)

| P/N     | Model                            |
|---------|----------------------------------|
| 99-0167 | ADA 2-10-12m<br>standard version |

Other models available on request for frequency range 3 - 15 MHz and 4 - 20 MHz

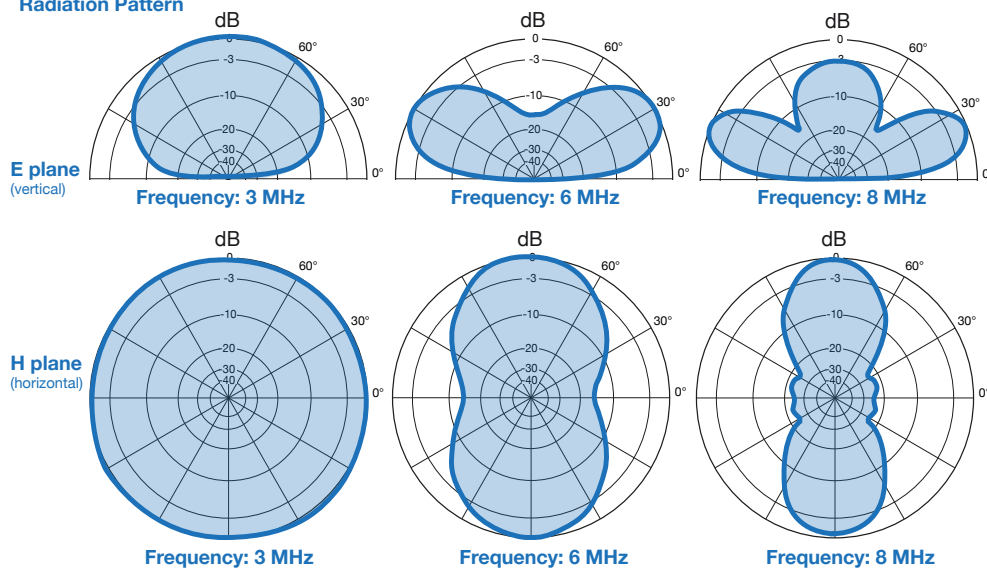


# ADA 2 - 10 - 24m



|                     |              |                          |                             |
|---------------------|--------------|--------------------------|-----------------------------|
| Frequency range     | 2 to 10 MHz  | Dimensions on ground     | 72 x 24 m                   |
| Impedance           | 50 $\Omega$  | Staying                  | $\varnothing$ 24 m          |
| VSWR in the band    | < 3          | Height                   | 24 m                        |
| Maximum gain        |              | Staying                  | 6 levels of 3 parafil stays |
| - at 2 MHz          | -4 dBi       | Radiating array material | Stainless steel cables      |
| - at 4 MHz          | +4 dBi       | Windspeed resistance     | 160 km/h without frost      |
| - at 10 MHz         | +3 dBi       | Temperature range        | -40° to +70°C               |
| Polarization        | Horizontal   | Color                    | ICAO Red / White            |
| Radiation pattern   | See diagrams |                          |                             |
| Maximum input power | 1 kW cw      |                          |                             |
| Connector           | N f          |                          |                             |

Radiation Pattern

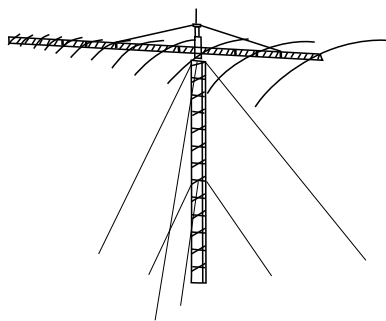


[Return to Search by Part Number](#)

| P/N     | Model                                 |
|---------|---------------------------------------|
| 99-0207 | ADA 2 - 10 - 24 m<br>standard version |

Other models available on request for frequency range 3 - 15 MHz and 4 - 20 MHz

# HLO 4 - 30



## Frequency range

- Tx 4 to 30 MHz
- Rx 2 to 30 MHz

Impedance 50  $\Omega$

VSWR in the band < 2.0

Maximum gain 12 dBi

Polarization Horizontal

Radiation pattern see diagrams

Maximum input power 10 kW cw

Connector EIA 1.5/8"

Mast height 34.50 m

## Ground staying

Dipole span 36 m

Boom lenght 28 m

Number of dipole 14

Boom weight 1750 kg

Rotation speed 360° in 2 minutes

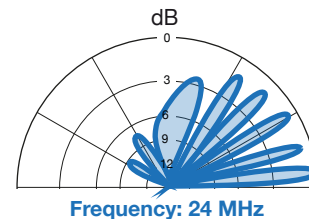
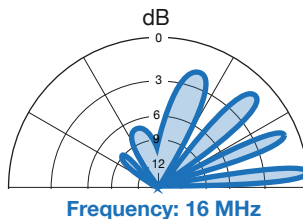
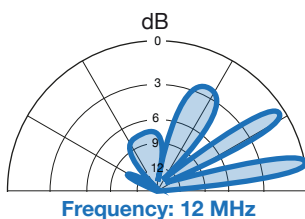
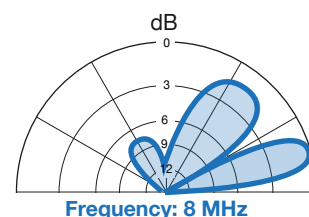
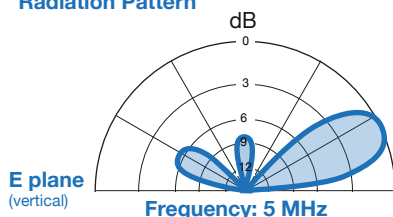
Staying 3 levels of 3 stays

Material radiating array/pylon AGS/Hot galvanized steel

Windspeed resistance 200 km/h without frost

Temperature range -40° to +70°C

## Radiation Pattern

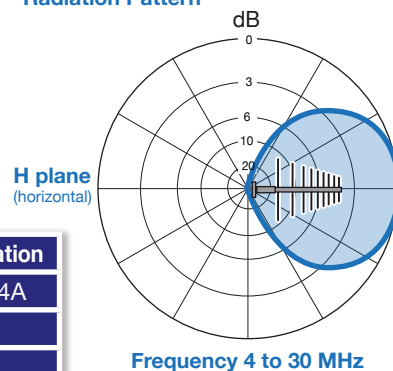


Remote antenna rotation UCRA in option.

## Return to Search by Part Number

| P/N      | Model                              | Motor        | Boom       | Identification |
|----------|------------------------------------|--------------|------------|----------------|
| 99-0126  | HLO 4-30                           | Standard     | Standard   | AN-584A        |
| 99-0215  | HLO 4-30D                          | EM Protected | Standard   |                |
| 99-0045  | AOLOG HF 4-30                      | EM Protected | Reinforced |                |
| 99-0011B | UCRA Antenna rotation control unit |              |            |                |

## Radiation Pattern



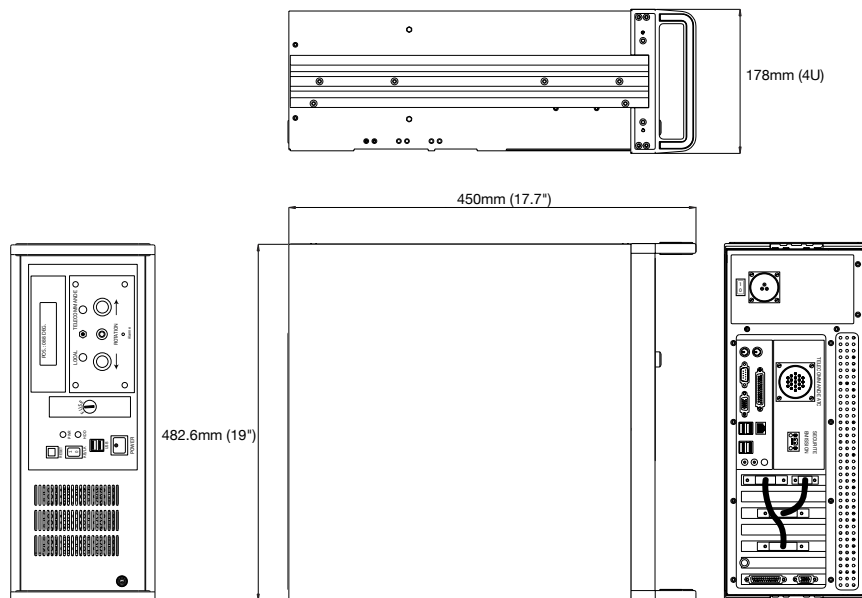
# UCRA Antenna Rotation Control Unit



HF Antennas



|                         |                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Construction            | Black painted steel                                                                                                                                                                                                                                                                                               |
| Dimension (WxDxH)       | 19" (482.6mm) x 17.7" (450mm) x 7" (177mm, 4U)                                                                                                                                                                                                                                                                    |
| Operating temperature   | 0° to +55°C                                                                                                                                                                                                                                                                                                       |
| Main power supply       | Full range AC 100/240 V, 50/60 Hz (350W)                                                                                                                                                                                                                                                                          |
| Antenna rotation modes  | <ul style="list-style-type: none"> <li>- Local by using front panel controls</li> <li>- Remote by using serial RS232 or network IPV4</li> </ul>                                                                                                                                                                   |
| Operating system        | Microsoft Windows 10 professional 32 Bits                                                                                                                                                                                                                                                                         |
| Remote control software | RS232 or IPV4 versions                                                                                                                                                                                                                                                                                            |
| Front panel indicators  | 2 lines, 16 characters backlit LCD for angle and alarms display.                                                                                                                                                                                                                                                  |
| Rear panel interfaces   | <ul style="list-style-type: none"> <li>- DB25 male connector for serial RS232</li> <li>- 2 pin COMBICON connector for normally closed RF transmitter safety loop</li> <li>- SLEM319L (19 pins) connector for antenna power control system</li> <li>- SLEM23C (3 pins) connector for main power supply.</li> </ul> |
| Accessories supplied    | 17" flat LCD display, USB keyboard, optical mouse and external DVD driver                                                                                                                                                                                                                                         |



[Return to Search by Part Number](#)

| P/N      | MODEL                              |
|----------|------------------------------------|
| 99-0011B | UCRA Antenna rotation control unit |

# Chock Coil Inductor for HLO / AOLOG HF Antenna

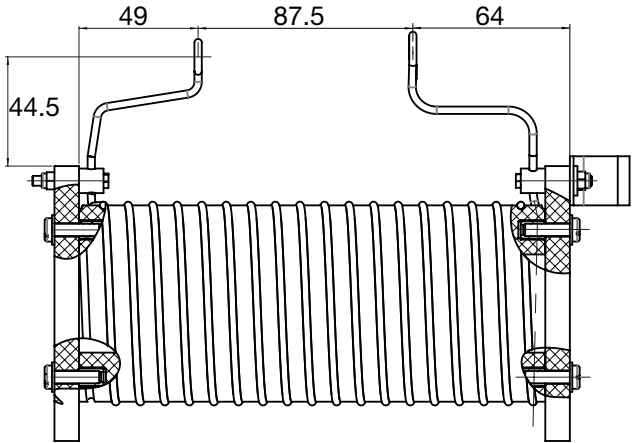
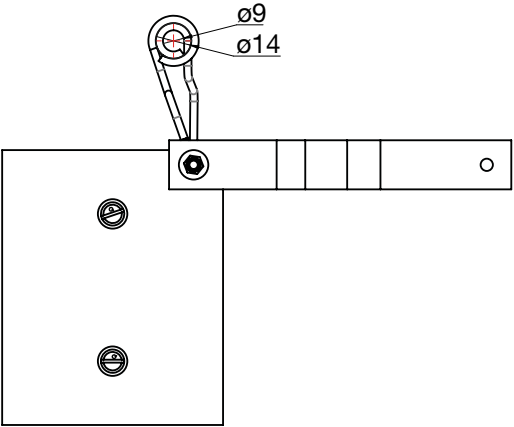


HF Antennas



Inductance  
Material  
Weight

Pom C + Al  
1.4 kg



Dimensions in mm

[Return to Search by Part Number](#)

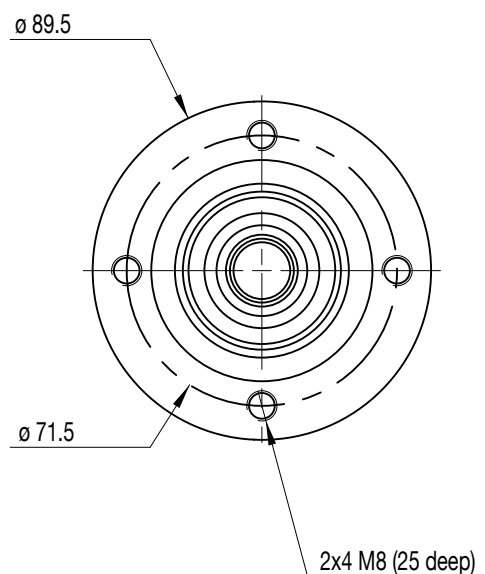
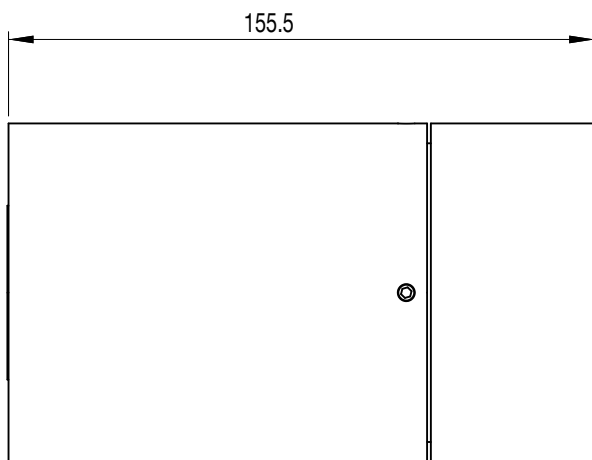
| P/N     | Model                                            |
|---------|--------------------------------------------------|
| 98-1010 | Chock Coil Inductance for HLO / AOLOG HF Antenna |

# Rotary Joint EIA 1.5/8"



HF Antennas

|                      |                                                              |
|----------------------|--------------------------------------------------------------|
| Impedance            | 50 $\Omega$                                                  |
| Frequency            | DC-30 MHz                                                    |
| Max power            | 10 kW                                                        |
| VSWR                 | < 1.03                                                       |
| Insertion loss       | < 0.1 dB                                                     |
| Interface            | EIA 1.5/8"                                                   |
| Material             | Al                                                           |
| Weight               | 2.5 kg                                                       |
| Accessories included | 2 splices EIA 1.5/8"<br>8 screws HM8x30 + washer<br>2 O-ring |



Dimensions in mm

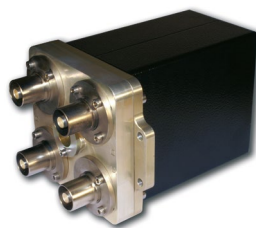
[Return to Search by Part Number](#)

| P/N     | Model                   |
|---------|-------------------------|
| 98-1009 | Rotary joint EIA 1.5/8" |

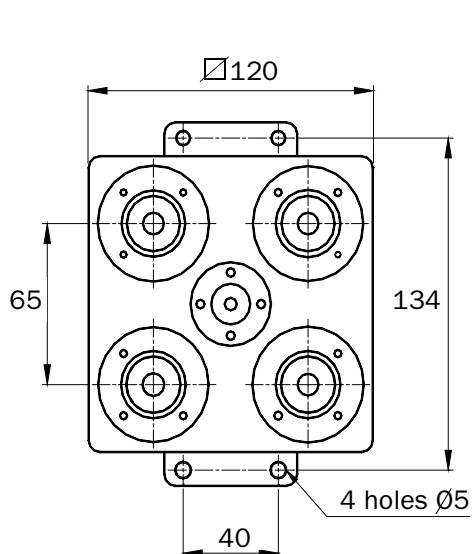


# 10 kW DPDT Coaxial Switch

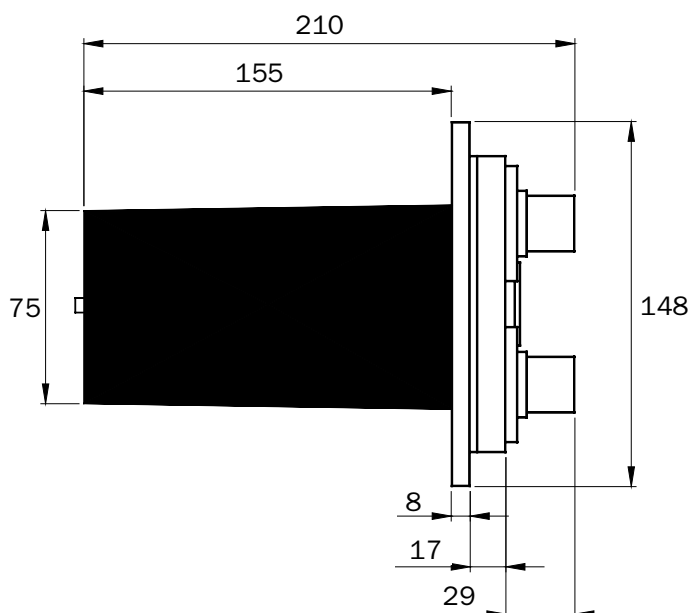
Standard  
NF C 96-317



|                    |                          |
|--------------------|--------------------------|
| Impedance          | 50 $\Omega$              |
| Frequency          | 2 - 30 MHz               |
| Isolation          | $\geq 80$ dB             |
| Insertion loss     | $\leq 0.05$ dB           |
| Actuating voltage  | 25 V DC $\pm 15\%$       |
| Actuating impulse  | 1.3 A - 100 ms           |
| Operate time       | $\leq 100$ ms            |
| Life ratings       | $\geq 100\,000$ switches |
| Case material      | Al                       |
| Coaxial connectors | Rigid Line 7/8"          |
| Weight             | 3.3 kg                   |



Dimensions in mm



[Return to Search by Part Number](#)

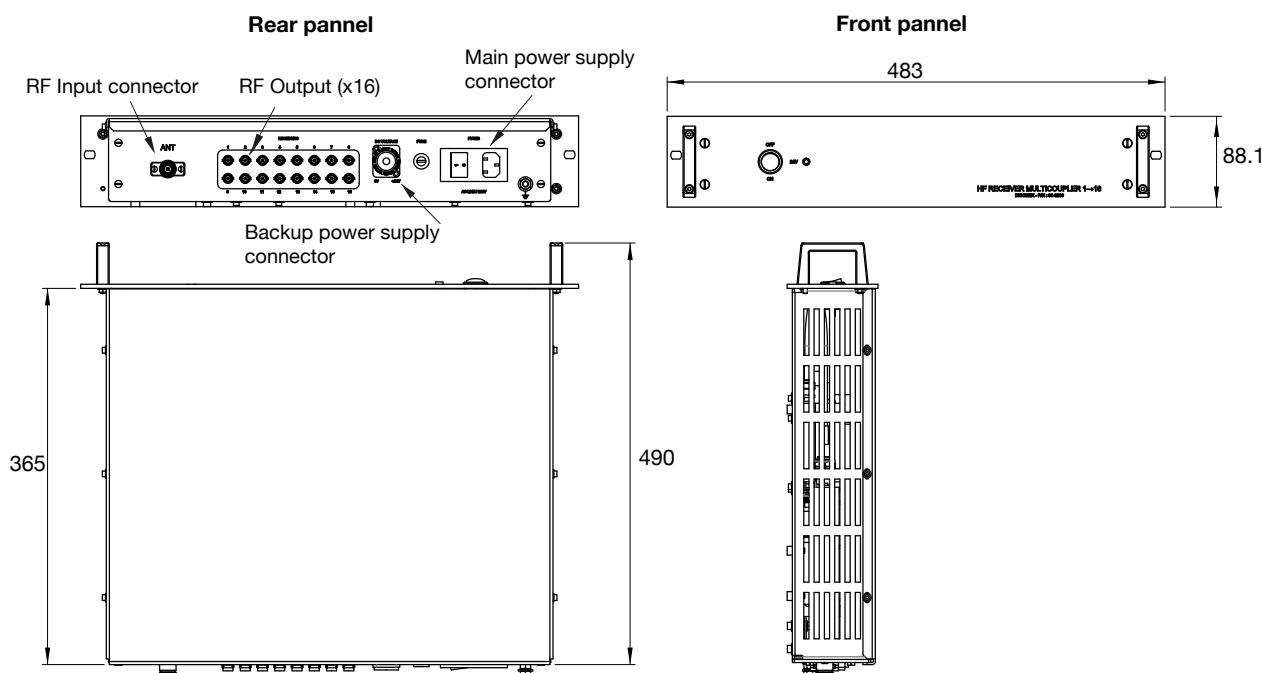
| P/N     | Model                     |
|---------|---------------------------|
| 18-0006 | 10 kW DPDT Coaxial switch |



# 16 Ways HF Receiver Multicoupler



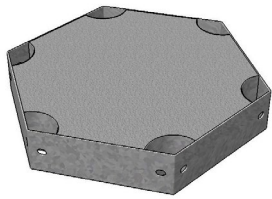
|                       |                       |                                |                        |
|-----------------------|-----------------------|--------------------------------|------------------------|
| Frequency range       | 2 - 30 MHz            | Dimensions (w x h)             | 19" rack - 4U          |
| Impedance             | 50 $\Omega$           | Depth                          | 365 mm                 |
| RF Input ports        | 1                     | Materials                      | AGS - galvanised steel |
| RF Output ports       | 16                    | Temperature range              | -10° to +65°C          |
| Maximal input power   | +10 dBm               | Weight                         | 7.5 kg                 |
| Average gain          | 1.5 dB                | RF Input connector             | 1 x N f                |
| Amplitude balance     | <0.3 dB               | RF Output connectors           | 16 x BNC f             |
| Phase balance         | <1°                   | Main power supply connector    | C14 IEC                |
| VSWR (Input/Output)   | < 2 / <1.2            | Back up power supply connector | @Powercon NAC3MPA-1    |
| Isolation             | > 25 dB               |                                |                        |
| Third order intercept | 14 dBm                |                                |                        |
| Noise figure          | 10 dB                 |                                |                        |
| Main power supply     | 230 V / 50 Hz - 60 Hz |                                |                        |
| Backup power supply   | 9 Vdc to 24 Vdc       |                                |                        |



[Return to Search by Part Number](#)

| P/N     | MODEL                            |
|---------|----------------------------------|
| 99-0200 | 16 ways HF receiver multicoupler |

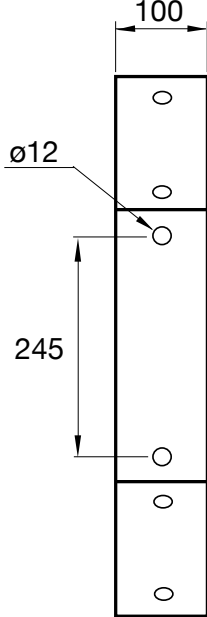
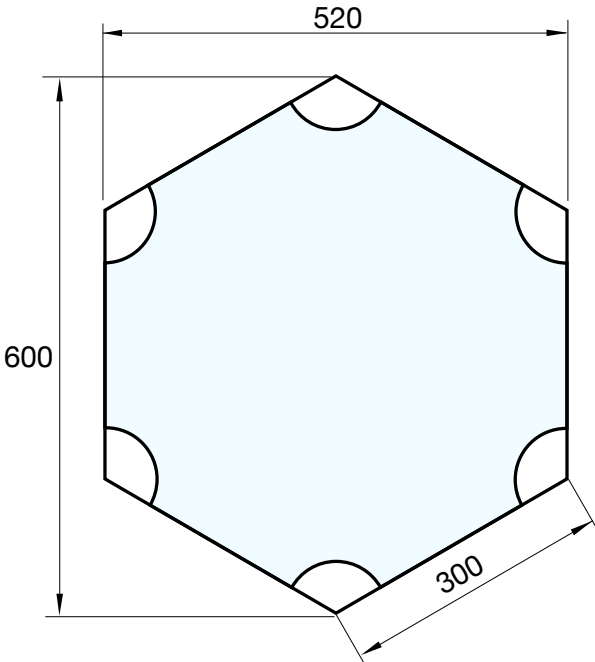
# Ballast concrete slab for antennas



HF Antennas



Material: concrete + Galvanized steel  
Weight: 50 kg



Dimensions in mm

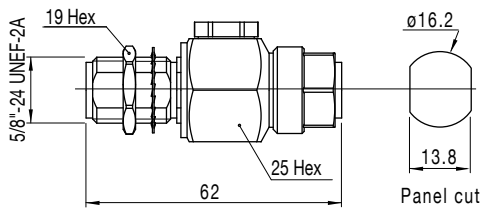
[Return to Search by Part Number](#)

| P/N     | Model                      |
|---------|----------------------------|
| 98-0220 | ballast concrete slab 50kg |

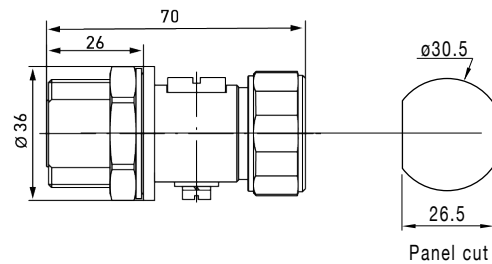
# Coaxial lightning protections



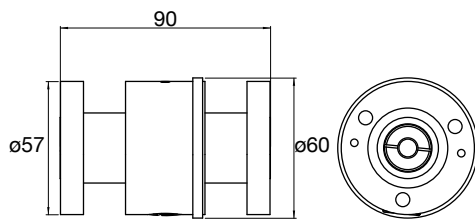
|                 |                 |
|-----------------|-----------------|
| Impedance       | 50 $\Omega$     |
| Frequency range | DC to 1 GHz     |
| VSWR typical    | < 1.20          |
| Maximum power   |                 |
| – N             | 1 kW at 30 MHz  |
| – 7-16          | 5 kW at 30 MHz  |
| – 7/8"          | 10 kW at 30 MHz |
| – 1.5/8"        | 20 kW at 30 MHz |



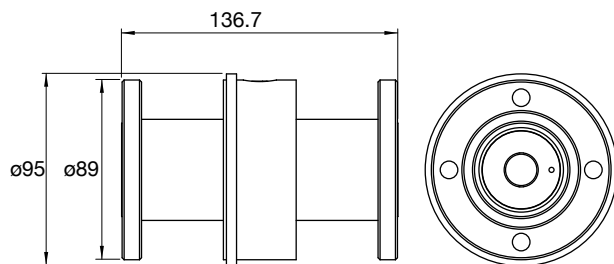
**30-0108**



**30-0114**



**30-0077**



**30-0078**

Dimensions in mm

[Return to Search by Part Number](#)

| P/N       | Model              | Weight (kg) |
|-----------|--------------------|-------------|
| 30-0108   | N m-f bulhead      | 0.3         |
| 30-0114   | 7-16 m-f bulhead   | 0.5         |
| 30-0077   | EIA 7/8"           | 0.8         |
| 30-0077 T | EIA 7/8" bulhead   | 0.8         |
| 30-0078   | EIA 1.5/8"         | 1.5         |
| 30-0078 T | EIA 1.5/8" bulhead | 1.5         |

# Search by Part Number

| Part Number               | Page |
|---------------------------|------|
| <a href="#">18-0006</a>   | T23  |
| <a href="#">30-0077</a>   | T26  |
| <a href="#">30-0077 T</a> | T26  |
| <a href="#">30-0078</a>   | T26  |
| <a href="#">30-0078 T</a> | T26  |
| <a href="#">30-0108</a>   | T26  |
| <a href="#">30-0114</a>   | T26  |
| <a href="#">98-0220</a>   | T25  |
| <a href="#">98-1009</a>   | T22  |
| <a href="#">98-1010</a>   | T21  |
| <a href="#">99-0011B</a>  | T20  |
| <a href="#">99-0028</a>   | T6   |
| <a href="#">99-0029</a>   | T6   |
| <a href="#">99-0044</a>   | T8   |
| <a href="#">99-0045</a>   | T19  |
| <a href="#">99-0046</a>   | T4   |
| <a href="#">99-0053</a>   | T12  |
| <a href="#">99-0071</a>   | T5   |
| <a href="#">99-0079</a>   | T10  |
| <a href="#">99-0080</a>   | T11  |
| <a href="#">99-0092</a>   | T9   |
| <a href="#">99-0126</a>   | T19  |
| <a href="#">99-0143</a>   | T15  |
| <a href="#">99-0144</a>   | T16  |
| <a href="#">99-0145</a>   | T15  |
| <a href="#">99-0146</a>   | T16  |
| <a href="#">99-0158</a>   | T3   |
| <a href="#">99-0167</a>   | T17  |
| <a href="#">99-0168</a>   | T13  |
| <a href="#">99-0169</a>   | T14  |
| <a href="#">99-0170</a>   | T14  |
| <a href="#">99-0200</a>   | T24  |
| <a href="#">99-0206</a>   | T7   |
| <a href="#">99-0207</a>   | T18  |
| <a href="#">99-0215</a>   | T19  |



