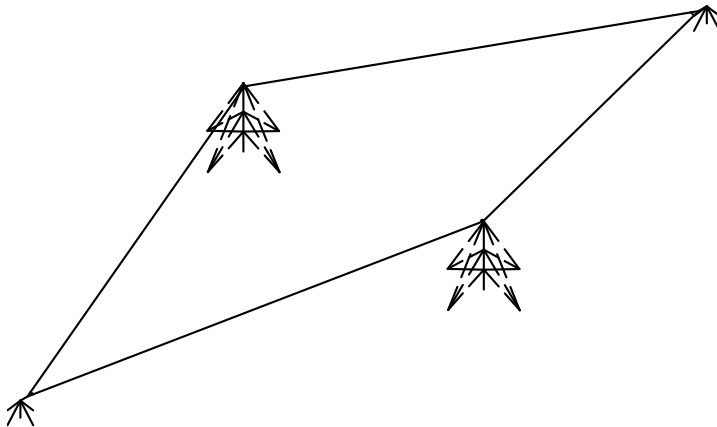


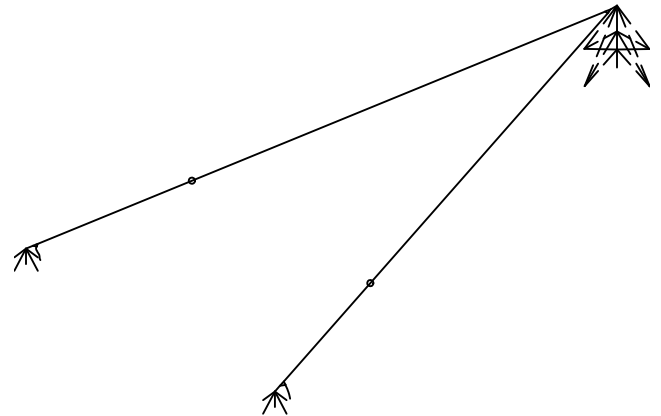
## DESCRIPTION

Directional tactical wire antenna, designed for long-range point-to-point communications. This antenna can also be installed in Sloping Vee.

Rhombic Antenna  
Reference F3435-76350

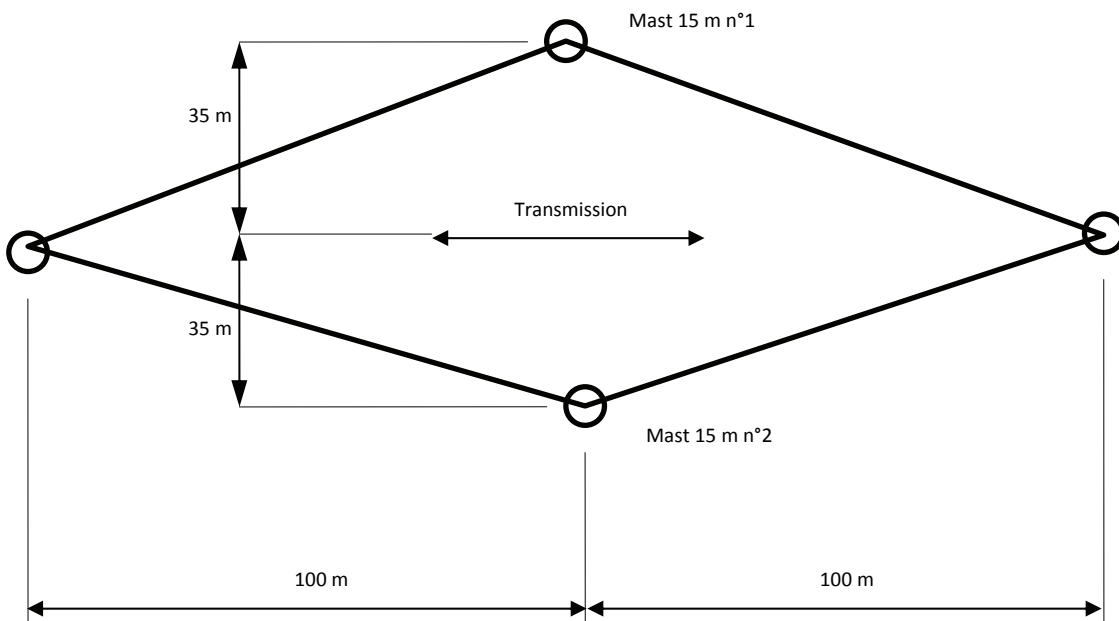


Sloping Vee Antenna  
Reference F3435-63508



## DIMENSIONS

The antenna in rhombic configuration is installed on a surface of the following directions: 220m in the direction of the transmission, and 100m in the perpendicular direction. In Sloping Vee configuration, the installation area is 180m by 100m.



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**Comrod SAS - France**

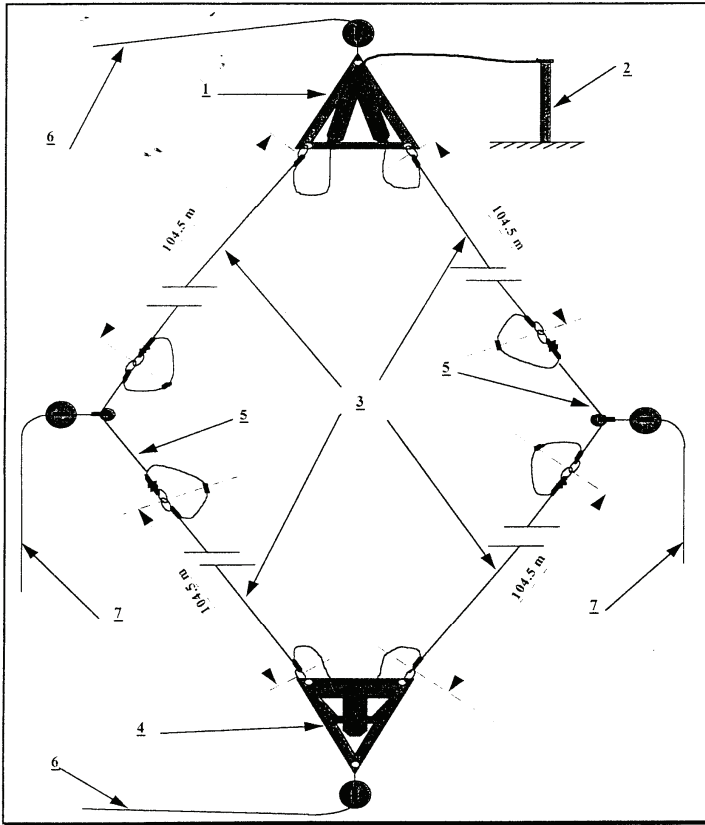
Tel (+33) 327228550 • Fax (+33) 327228555  
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**Comrod UK - United Kingdom**

Tel (+44) 2380302494 • Fax (+44) 2380302195  
email: [salesuk@comrod.com](mailto:salesuk@comrod.com)

## MANUFACTURING

The antenna is made of 4 sleeve masts (2 masts of 15m and 2 masts of 4m) supporting a rhombic wire antenna fed by a wideband transformer and loaded by a terminal resistance.

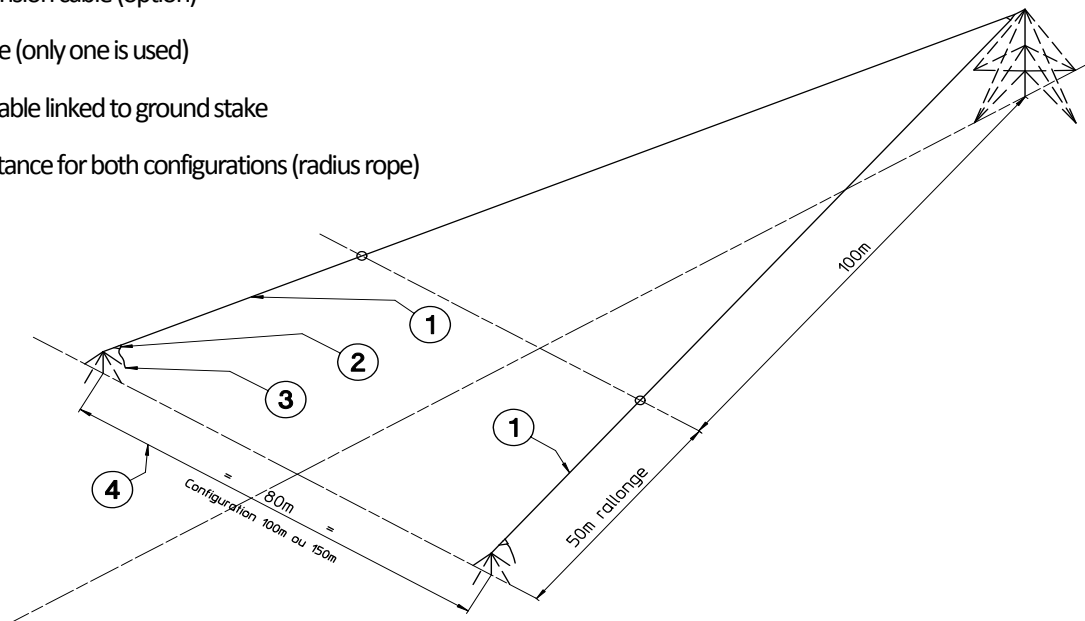


### Mounting in Rhombic shape

1. Resistances
2. Ground stake
3. Antenna wire (105m length)
4. Transformer
5. Intermediate cable, 4m length
6. Longitudinal tightening guy cable
7. Lateral tightening guy cable

### Mounting in Sloping Vee

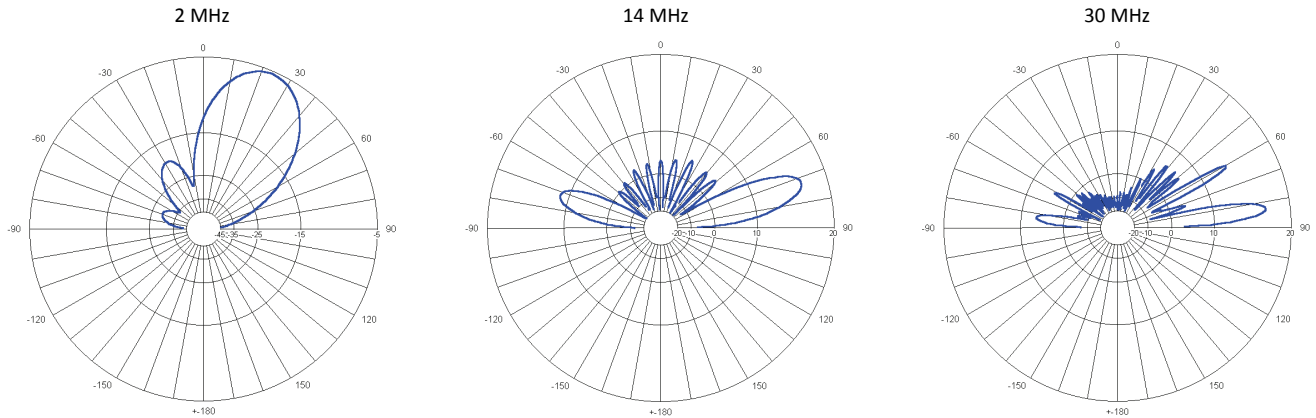
1. 1–50 m extension cable (option)
2. 2– Resistance (only one is used)
3. 3– Ground cable linked to ground stake
4. 4– Same Distance for both configurations (radius rope)



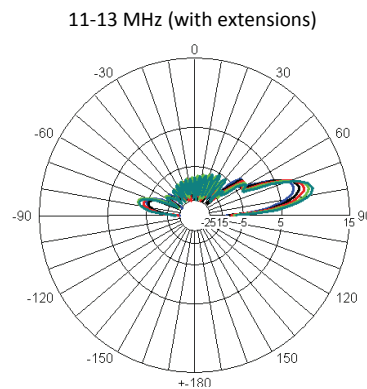
## ELECTRICAL SPECIFICATION

Frequency range	2 to 30 MHz
V.S.W.R.	< 2 at transformer entry < 1,5 to 2 MHz
Radiating diagrams, V plan	See graphs below
Permissible power	1 kW

### RHOMBIC ANTENNA



### SLOPING VEE ANTENNA



## MECHANICAL SPECIFICATION

Weight	< 340kg
Number of bags*	9
Total volume*	< 2m <sup>3</sup>
Max. weight of a bag*	< 44 kg
Max. length of a bag*	1,5 m
Installation time with three operators	
<ul style="list-style-type: none"> <li>In Rhombic configuration</li> <li>In Sloping Vee configuration</li> </ul>	3 hours at 3 persons 2 hours at 2 persons
Colour	Army green

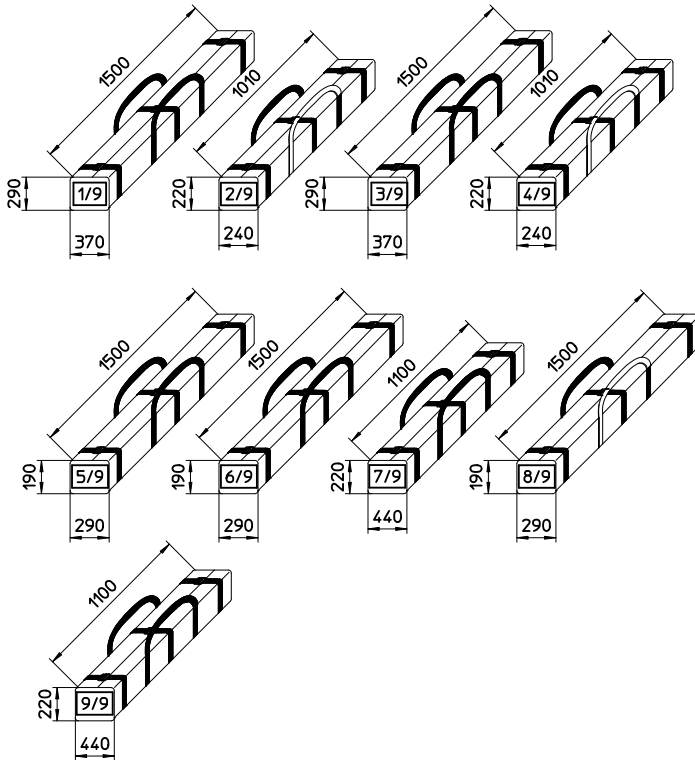
\* See details in packaging §.

## ENVIRONMENTAL SPECIFICATION (according to GAM-EG-13 and MIL-STD-810)

Temperature range	
• Storage	-40°C to +70°C
• Operation	-40°C to +70°C
Wind resistance	120km/h on ground type 5 (MIL-STD-619-B)

## PACKAGING

The Rhombic antenna, with Sloping Vee kit, is made of 9 transport bags as described below:



Weight details:

- Bag n°1 38kg
- Bag n°2 41kg
- Bag n°3 38kg
- Bag n°4 41kg
- Bag n°5 42kg
- Bag n°6 42kg
- Bag n°7 33kg
- Bag n°8 35kg
- Bag n°9 18kg

387 kg

## INSTALLATION

Masts are assembled on the ground and tilted to vertical by using a deployment kit (see picture below)

The antenna is then lifted to the top of the mast like a flag.



Tilting of a 15m mast