

## ComAnt from CompleTech

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Sjekket av					
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Filnavn	G:\99\TN\TN-99-012-01 ComAnt from CompleTech.doc
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### Revisjonshistorie

Rev.	Endringer
1	Første revisjon

## Dipole and Yagi Antenna for UHF-band

ComleTech makes antennae for VHF and UHF communications.

### Environmental protection

They are well protected against corrosion and water intrusion because they are covered by corrosion-resistant materials and the electromechanics inside are molded in polyurethane foam.

### Configurable

The antennae's are modular and are possible to be upgraded simply by adding elements to change gain or radiation characteristics.

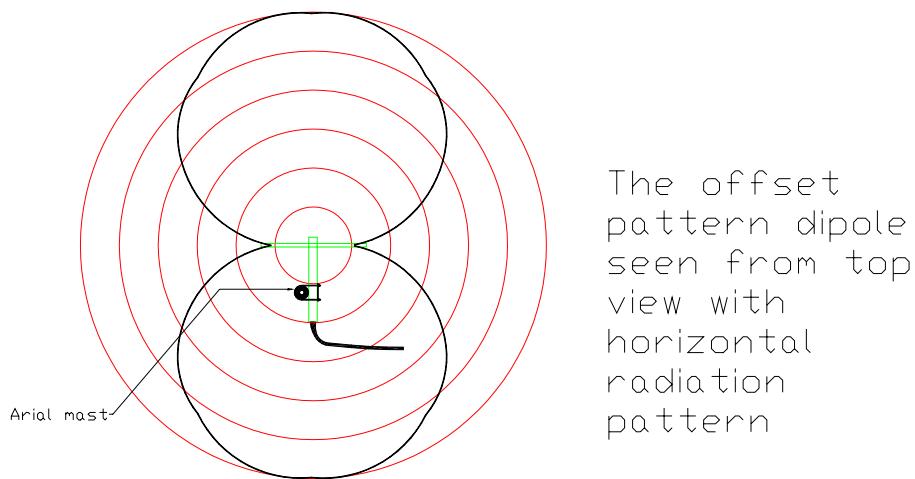
### Lightning damage and discharge noise

The design of the ComAnt protects equipment connected to antenna circuit from indirect stroke of lightning. This is due to DC short circuited construction, and make the use of any lightning protection of the antenna connection unnecessary.

### Mounting instructions for MC-3000/MC3000+

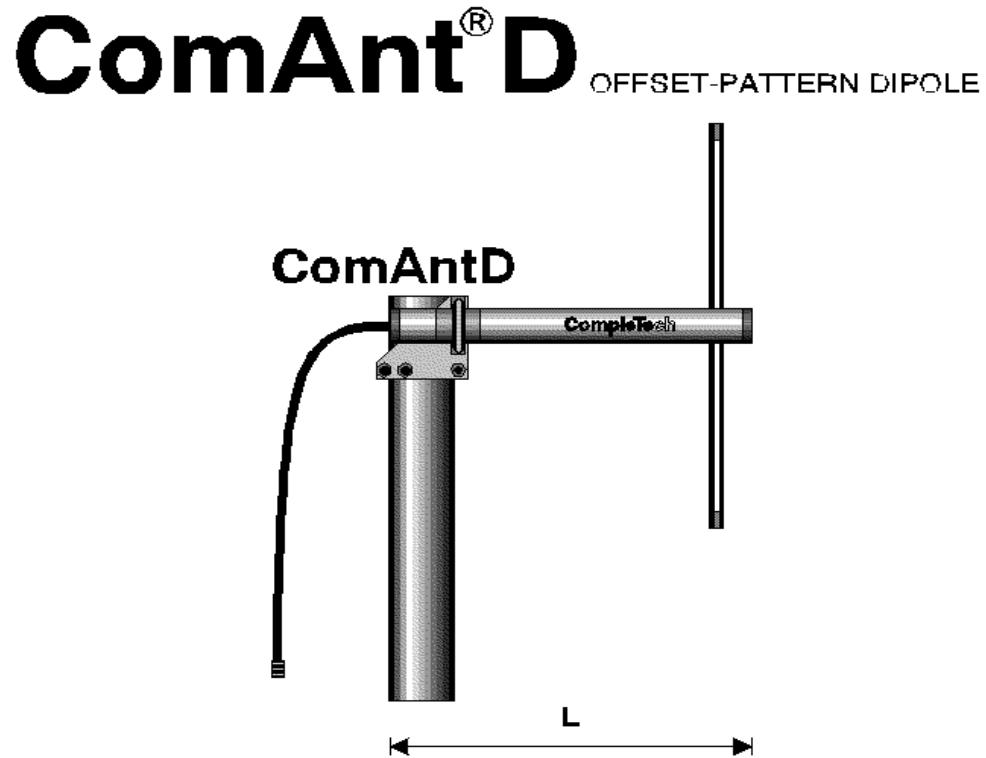
The choice of antenna type is based on application and we have to take in consideration range, lobe (radiation pattern) and topography. Some of the rules here are general for all of the ComAnt. All the cable junctions should be covered by self-amalgamating tape or equivalent.

We have made mounting instructions only for the offset pattern dipole and the Yagi antenna. Both the Dipole and the Yagi antenna are mounted horizontally. The dipole may be mounted directed upwards. The radiation pattern is quite similar to the horizontal mounting. The radiation pattern and gain are changed compared with the data sheets because the antenna is rotated 90° around its axis.

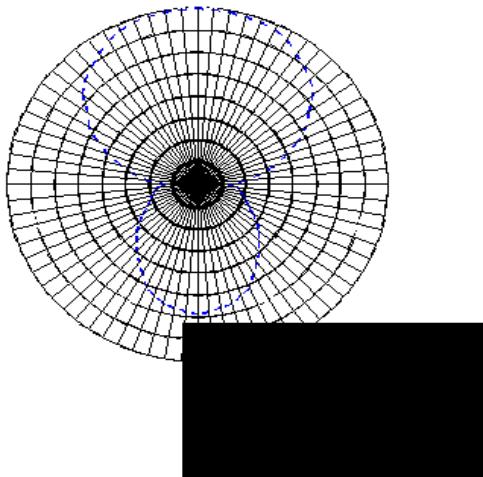


**Figure 1: The ComAnt D, offset pattern dipole with horizontal radiation pattern. Be aware that the pattern differs from the data sheet because the antenna is rotated 90 degrees around its axis, and thus don't have the reflector effect of the aerial mast.**

Figure 2 Data sheet of the Completech ComAnt D

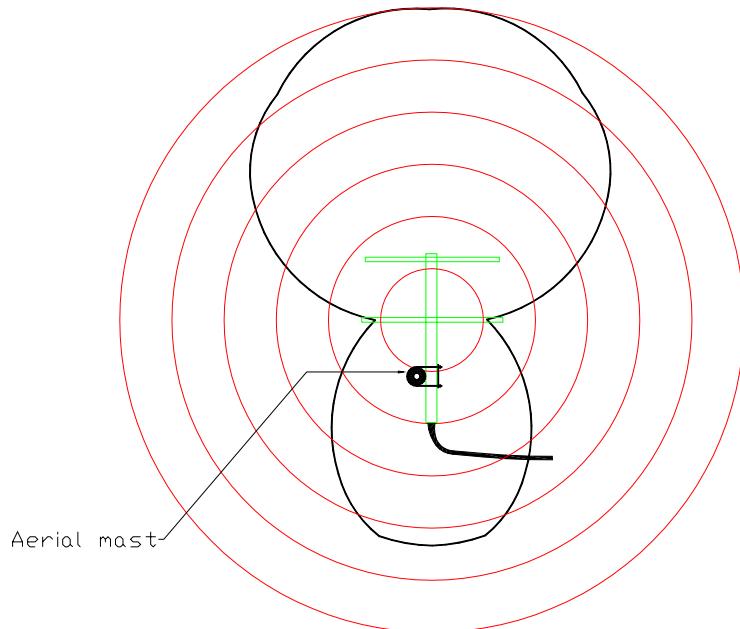
**FREQUENCY INDEPENDENT DATA:**

**Impedance:** 50 ohm  
**Polarization:** vertical/horizontal  
**Gain:** 4.2 dBi  
**VSWR:** <1.5  
**Connector:** TNC-female/N-female  
**Material:** PVC, grey  
**Attachment:** ø40-60 mm

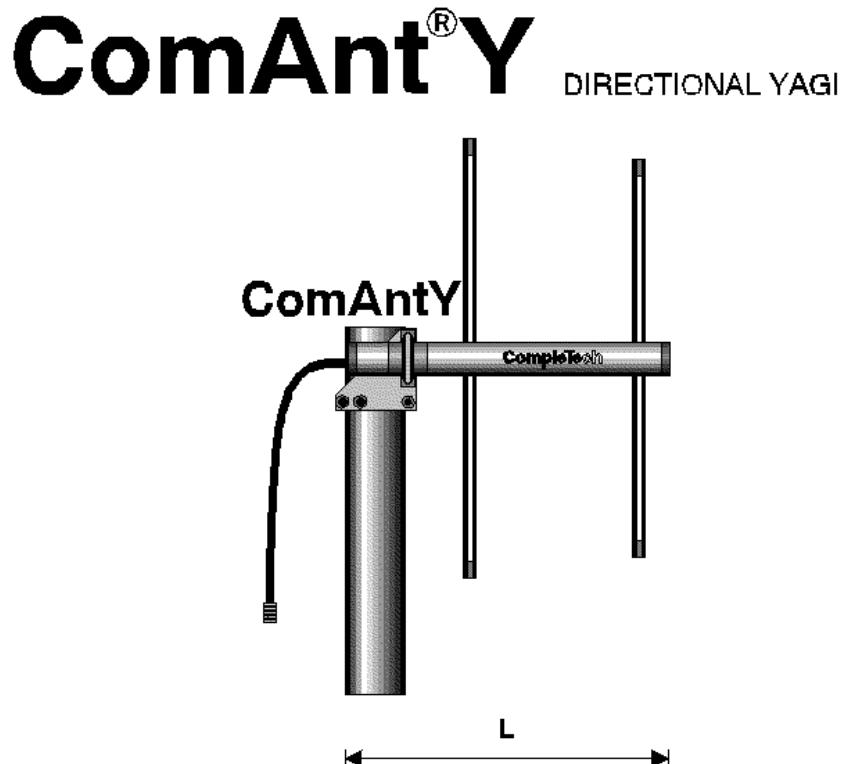
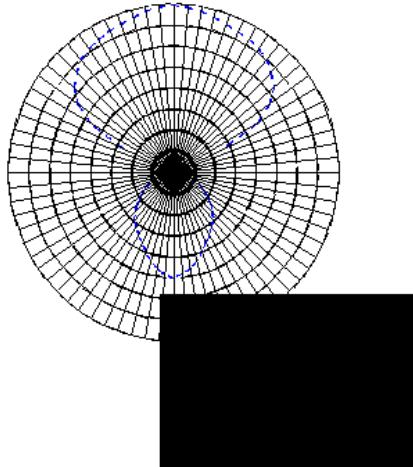


for frequency dependent data see ComAnt PRODUCT LIST

**Figure 3: The ComAnt Y, Yagi antenna with horizontal radiation pattern. Be aware that the pattern differs from the data sheet because the antenna is rotated 90 degrees around its axis, and thus don't have the reflector effect of the aerial mast.**



The Yagi  
antenna seen  
from top view  
with radiation  
pattern

**Figure 4: Data sheet of the ComAnt Y, Yagi antennat****FREQUENCY INDEPENDENT DATA:****Impedance:** 50 ohm**Polarization:** vertical/horizontal**Gain:** 6.2 dBi**VSWR:** <1.5**Connector:** TNC/N-female**Material:** PVC, grey**Attachment:** ø 40-60 mmfor frequency dependent data see ComAnt PRODUCT LIST

Refer to the technical manuals and datasheets from ComleTech for further information.