

## VINNANT-ANTENA FOR SATELLITE OPERATIONS

### TURNSTILE, TYPE TUR 145/3-S



### USABLE 144-148MHZ

all modes ,omnidirectional

Antenna is tunable by sliding a reflector a bit up or down. Antenna is pretuned for best swr,

expect 1.3:1 or better at 145Mhz

Radiator and elements are made of 8mm of diameter thick wall pipe.

Elements are equiped with threading on one of the ends, this way is seats great into antenna and provide firm connection

Antenna is sended in small packet ,easy  
assembly needed with manual provided  
**ON THE END OF THIS PAGE**

### **Technical specifications:**

Lenght 60 cm with holder  
Width 110cm  
Weight 0,9 kg  
Radiator diameter 8mm  
Radials diameter 8mm  
Connector N female chassis type  
Power handling 150W  
Holder bolt 1XZ5 stainless steel  
mast mountable max 42 mm of diameter  
Circular polarization right hand  
**TUNED FOR 145.000 MHZ**  
usable 144-148mhz

### **ASSEMBLY INSTUCTIONS:**

ANTENNA IS SENT IN SMALL PACKET TO REDUCE THE SHIPPING COST AND  
NEED TO BE REASSEMBLED PRIOR TO USE.IT IS DONE IN SIMPLE STEPS:

**STEP1:**

UNPACK THE ELEMENTS FROM THE FOIL,THE 4 SHORTER ELEMENTS WITH NO  
THREAD AND 4 LONGER WITH LONG THREAD AND NUT

**STEP2:**

SHORT ELEMENTS ARE TOP SECTION PART,PLACE INTO OPENNING ONE BY ONE  
UNTIL IT STOPS,SCREW TIGHT SMALL HEADLESS SCREW WITH PROVIDED ALLEN  
KEY.YOU MAY NEED TO UNSCREW THE SMALL SCREW FIRST SO IT LET THE  
ELEMENT INSIDE THE OPENNING.

**STEP3:**

LONG ELEMENTS WITH COUNTER LOCKING NUTS ARE FOR THE BOTTOM  
SECTION TUNING RING,NEAR THE BRACKET.MAKE SURE THE NUT IS AT THE  
VERY ONE OF THE THREAD BEFORE PROCEEDING.PLACE EACH ELEMENT INTO  
THE TUNING RING AND SCREW INTIL IT STOPS,HAND TIGHT ONLY.

LOCK THE ELEMENT FROM UNSCREWING BY WIND BY COUNTER LOCKING THE  
NUT AGAINST THE TUNING RING,FIRST HAND TIGHT THEN USE SPANNER NO 13  
OR PLYES ,TURN THE NUT NO MORE THAN  $\frac{1}{4}$  OF THE TURN.

**STEP4:**

THE ANTENNA IS READY TO BE PLACED OUTSIDE AT THIS POINT.SINCE THE  
ANTENNA IS QUITE BIG AND HEAVY PLEASE MAKE SURE NOT TO DROP IT AS  
SOME ELEMENTS MAY BREAK OR BEND.IT IS BEST TO ASSEMBLE THE ANTENNA  
JUST PRIOR TO THE POLE MOUNTING.

USING THE ANTENNA INDOOR OR BLOCKED BY OBSTACLES,BUILDINGS,PATIO  
USAGE,THIS WAY WILL REDUCE THE SIGNAL STRENGHT.ANTENNA WILL BE  
RECEIVING THE BEST WITH 360 VIEW.

**TUNING OF THE ANTENNA:**

ANTENNA IS TUNABLE TYPE,TUNING IS DONE BE SLIDING THE TUNING RING  
UP OR DOWN TO TUNE THE ANTENNA IF NEEDED.SIMPLY LOOSEN THE  
HEADLESS SCREWS ON TUNING RING BY USING ALLEN KEY NO 2.5 LOOSEN THE  
RADIALS A LITTLE SO THE TUNING RING AN BE SLIDED.START MOVING FROM

ORIGINAL POSITION IN ABOUT A 5 MM A STEP.MAKE SURE THAT ELEMENTS ARE IN LINE AND MAKE A PERFECT CROSS LOOKING FROM THE BRACKET TO THE TOP SETION.IF HAPPY WITH SWR OR CENTER OF THE TUNING ,SECURE THE ALLEN SCREWS TO KEEP THE SETTING OF THE ANTENNA.