

## AV 2040 UHF Satellite Communication (SATCOM) Antenna



### Details

The **AV 2040** is a foldable, manpack, high gain, UHF Satellite Communication (SATCOM) antenna designed for special missions where portability and high gain are required.

### AV 2040 Specifications

|                         |   |
|-------------------------|---|
| Frequency               | 240-400 MHz   |
| VSWR                    | 1.5:1   |
| Polarization            | Right Hand Circular   |
| Gain                    | AV 2040-3 +7.0 dBic, 240-400 MHz<br>AV 2040-2 +11.0 dBic, 240-318 MHz<br>AV 2040-1 +9.0 dBic, 240-400 MHz |
| Power Handling          | 200 Watts CW  |
| Axial Ratio             | 3 dB  |
| Weight                  | 6.5 pounds  |
| Connector               | BNC Male  |
| Finish                  | Black   |
| Military P/N (AV2040-3) | NSN 5985-01-149-2576  |

[www.ultralifecorporation.com](http://www.ultralifecorporation.com)

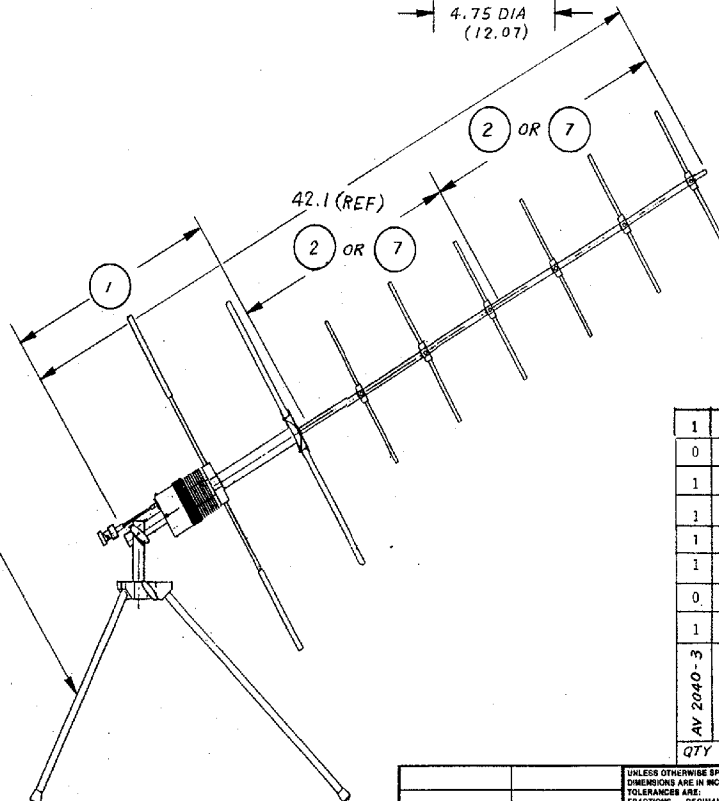
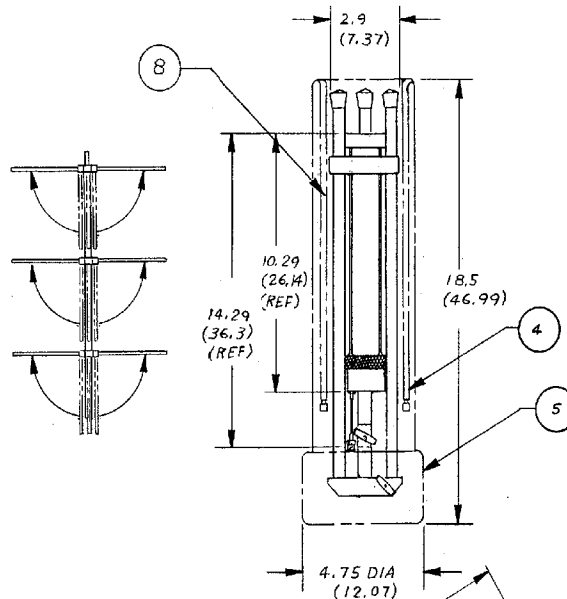
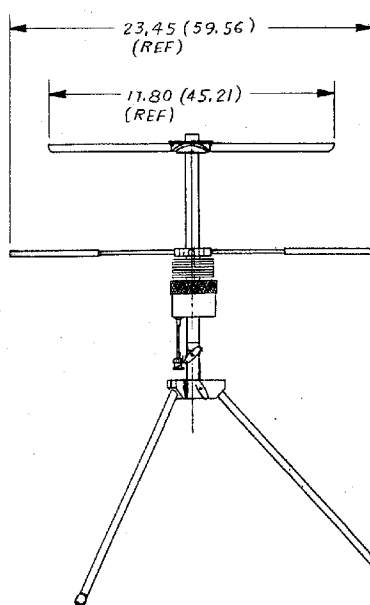
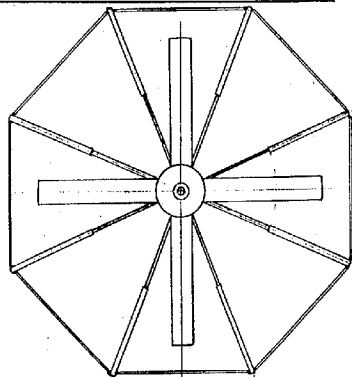
2000 Technology Parkway, Newark, New York | 315-332-7100 | Fax: 315-331-7800

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## SPECIFICATIONS

FREQUENCY : 240 TO 400 MHZ  
 VSWR : 1.5:1 OR LESS  
 IMPEDANCE : 50 OHMS  
 POLARIZATION : RIGHT HAND CIRCULAR  
 GAIN (Nominal):  
 AV 2040-3 : +7.0 dBic (240 to 400 MHZ)  
 AV 2040-1 : +9.0 dBic (240 to 400 MHZ)  
 AV 2040-2 : +11.0 dBic (240 to 318 MHZ)  
 AXIAL RATIO : 3 dB MAX @ 3 dB BEAMWIDTH  
 POWER : 200 WATTS  
 CONNECTOR : BNC MALE  
 CABLES : BNC FEMALE AND BNC MALE  
 WEIGHT : 6.3 LBS MAX  
 WIND LOADING : Tested to 80 MPH  
 TEMPERATURE :  
 OPERATING : -25 TO 180 DEGREES F  
 NON-OPERATING : -54 TO 250 DEGREES F  
 DEPLOYMENT : 30 SECONDS OR LESS  
 DROP TEST : OPERATION IS NOT DEGRADED WHEN DROPPED FROM A HEIGHT OF 4 FT IN A STORED CONFIGURATION.  
 IMMERSION : OPERATIONAL AFTER IMMERSION IN FOUR (4) FEET OF WATER FOR A PERIOD OF FOUR (4) HOURS.  
 FINISH : BLACK COLOR

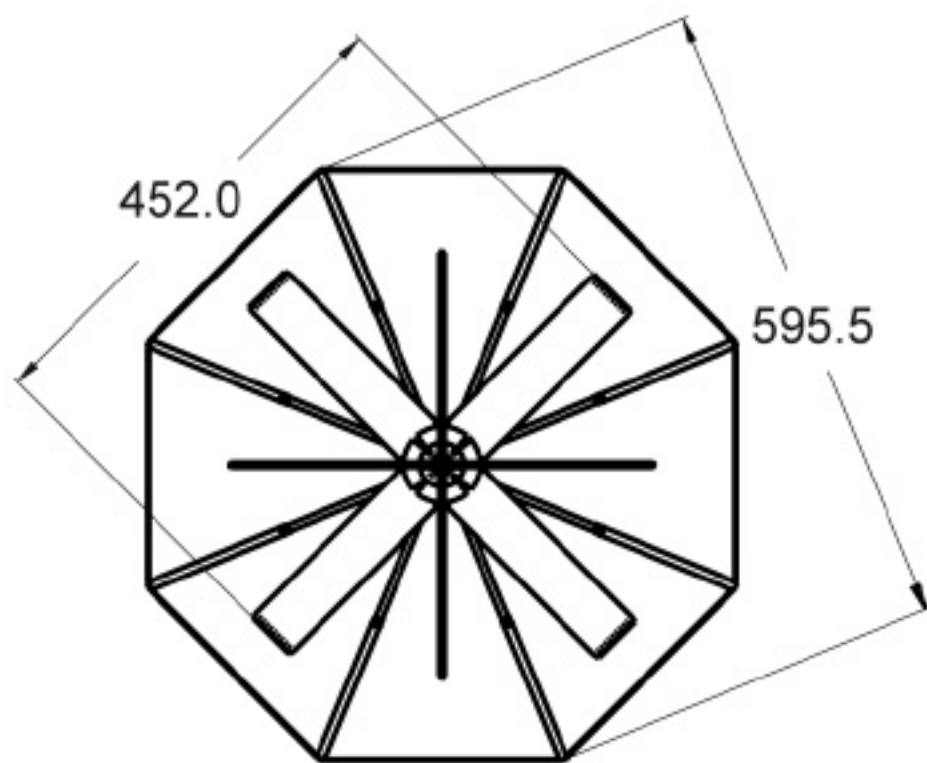
## Notes:

- The AV 2040 series antenna system is an enhanced version of currently available portable UHF satellite communication antenna. In its basic configuration, the AV 2040 series is deployed and stowed in a manner similar to NSN 5958-01-128-6418, 5985-01-202-9911, and 5985-01-149-2576 antennas but with superior performance characteristics. In its enhanced configuration, two (2) director assemblies are added to provide a nominal gain of +9 or 11 dBic, a +3 dB nominal gain improvement over existing designs. No tools are required for deployment. All assemblies can be stowed on a standard carrying case (4.75" dia by 18.5" long).
- The AV 2040 antennas are tested in accordance with Trivec-Avant Corporation ATP2040.

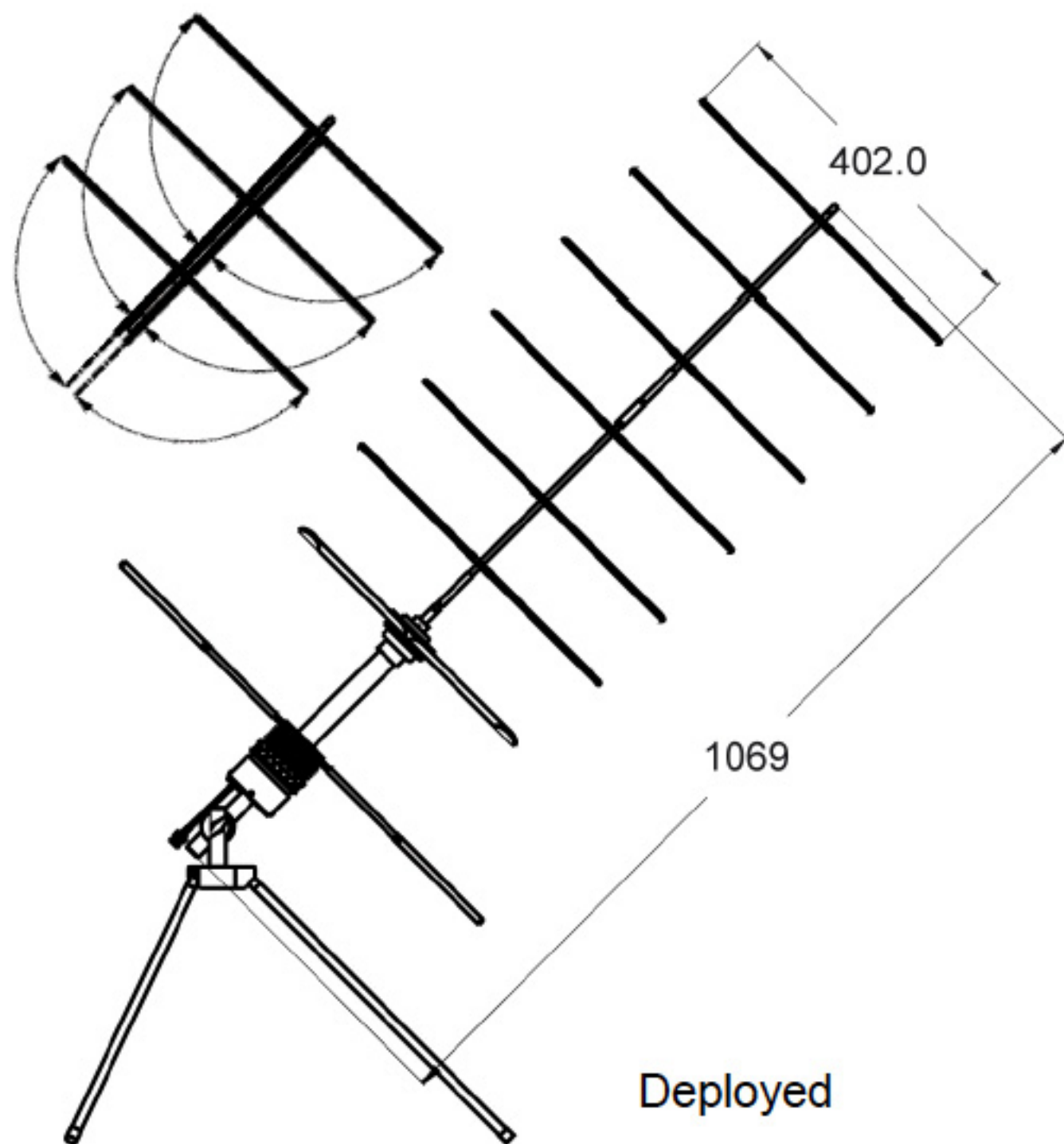
|   |   |   |   |            |                                    |
|---|---|---|---|------------|------------------------------------|
| 1 | 1 | 1 | 8 | 2040-105-1 | CABLE ASSEMBLY W/ N TO BNC ADAPTER |
| 0 | 2 | 0 | 7 | 2040-103   | DIRECTOR ASSEMBLY                  |
| 1 | 1 | 1 | 6 | 2040-107   | INSTRUCTION MANUAL                 |
| 1 | 1 | 1 | 5 | 2040-106   | CARRYING CASE (OPTIONAL)           |
| 1 | 1 | 1 | 4 | 2040-105   | CABLE ASSEMBLY                     |
| 1 | 1 | 1 | 3 | 2040-104   | TRIPOD ASSEMBLY                    |
| 0 | 0 | 2 | 2 | 2040-102   | DIRECTOR ASSEMBLY                  |
| 1 | 1 | 1 | 1 | 2040-101   | BASIC ANTENNA CONFIGURATION        |

| ITEM         | QTY REQ'D | PART OR IDENTIFYING NO. | NOMENCLATURE OR DESCRIPTION                              | MATERIAL SPECIFICATION |
|--------------|-----------|-------------------------|--|------------------------|
| AV 2040-3    | 1         |                         |  |                        |
| AV 2040-2    | 1         |                         |  |                        |
| AV 2040-1    | 1         |                         |  |                        |
| PARTS LIST   |           |                         |  |                        |
| CONTRACT NO. |           |                         | TRIVEC-AVANT CORPORATION                                 |                        |
|              |           |                         | 17634 Jamestown Lane, Huntington Beach, California 92647 |                        |
| APPROVALS    |           |                         | TITLE  |                        |
| DATE         |           |                         | PORTABLE UHF SATELLITE COMMUNICATION ANTENNA             |                        |
| SIZE         |           |                         | FSCM NO. 60188   |                        |
| DWG. NO.     |           |                         | AV 2040-( )  |                        |
| SCALE        |           |                         | SHEET 1 OF 1   |                        |

|   |   |
|---|---|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS ARE DECIMALS .XX .XXX | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS ARE DECIMALS .XX .XXX |
| NEXT ASSY   | USED ON   |
| APPLICATION   | DO NOT SCALE DRAWING  |

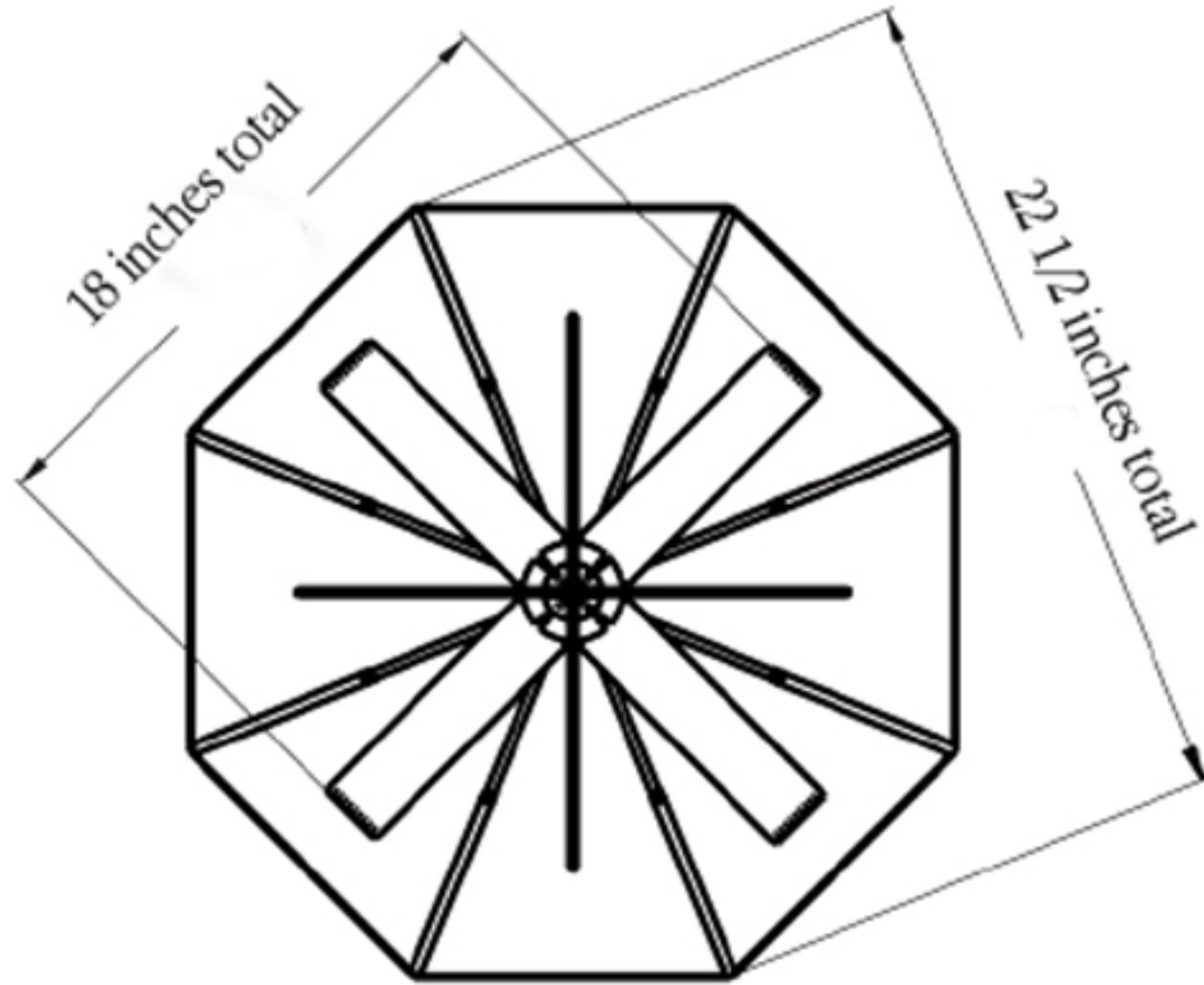


Outer Ring  
Diameters



Deployed

# UHF SATCOM ANTENNA EXTERNAL DIMENSIONS



Outer Ring  
Dimensions

