

# HF Folded Dipole Antenna

**Part Number: STFD-60-400W**

**Frequency: 1.6 – 30 MHz | Power Rating: 400 Watt | Connector: N (Female)**

## OVERVEIW

**SATELCOM's HF Folded Dipole Antenna** has a flat frequency response with no ripple on VSWR. Due to this frequency response, it can work at high performance over the entire HF band without need for any coupler or tunner circuit. Folded Dipole antennas can be installed very fast as flat-top or inverted-Vee due to their structure. They offer NVIS and long-range propagation, depending upon the mast configuration.

Besides its transmission performance, it offers a superior signal / noise ratio performance with folded dipole structure. In this way, it is not affected by background noise and provides excellent signal reception.

## KEY FEATURES

- ✓ HF Broadband Antenna,
- ✓ Operate 1.6-30 Mhz with < 2:1 SWR,
- ✓ 50  $\Omega$  Input Impedance,
- ✓ 400W power handling capability,
- ✓ Working temperature -40°C / +55 °C,
- ✓ Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810G
- ✓ Wind max resistance 200 km/h,
- ✓ Possible to use in NVIS or Long-range Propagation,
- ✓ Installation possibility at different heights and angles like Inverted Vee, Flat Top and Sloper

### Electrical Specifications

Part Number	STFD-60-400W
Frequency	1.6 – 30 MHz
Input Power	400 Watt
VSWR/Return loss	1.6 -30 MHz <2 : 1
Input Impedance	50 $\Omega$

### Mechanical Specifications

Connector	N (Female)
Dimensions Double Unit (HxW)	0.20m x 18.00 m
Deployment Time	2 People - 5 Minutes
Weight	< 5 kg
Installation Height	NVIS 4 mt Flat Top Long Range 8 mt Apex Inverted Vee

### Environmental Specifications

Temperature Range	-40 to / + 55 °C
Wind Resistance	200 km/h



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**Revised |** January 22 2021 ( V4)

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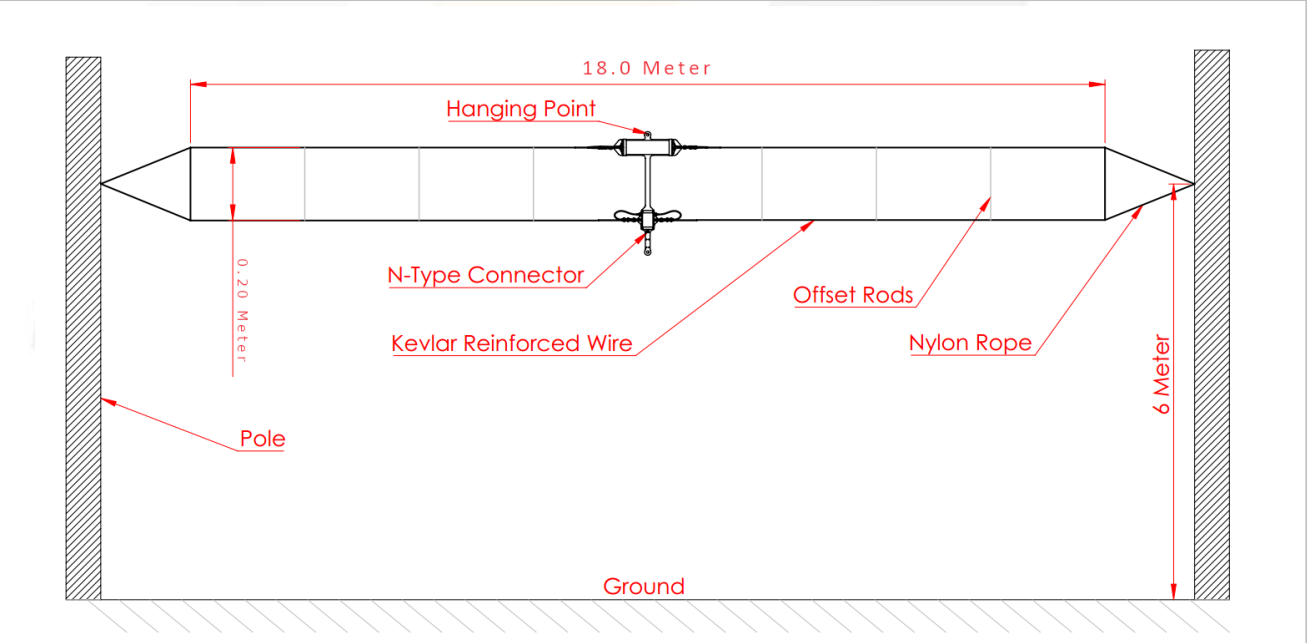
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## Technical Specifications (MIL-STD-810G)

PVC Isolator	High UV Resistance
1:16 Balun	U PVC Insulated- Resistant to environmental conditions such as Wind / Dust / Moisture / UV
800 $\Omega$ Resistance	Non-Inductive-U PVC Insulated - Resistant to environmental conditions such as Wind / Dust / Moisture / UV
Kevlar Reinforced Cable	2.4 mm - Copper - Resistant to environmental conditions such as Wind / Dust / Moisture / UV
Mount	Stainless - Resistant to environmental conditions such as Wind / Dust / Moisture / UV
Carry Bag	Mildew and Water resistant / Carrying capacity up to 70kg (Except MIL-STD-810G)

## Drawing



## Accessories

Carry Bag	
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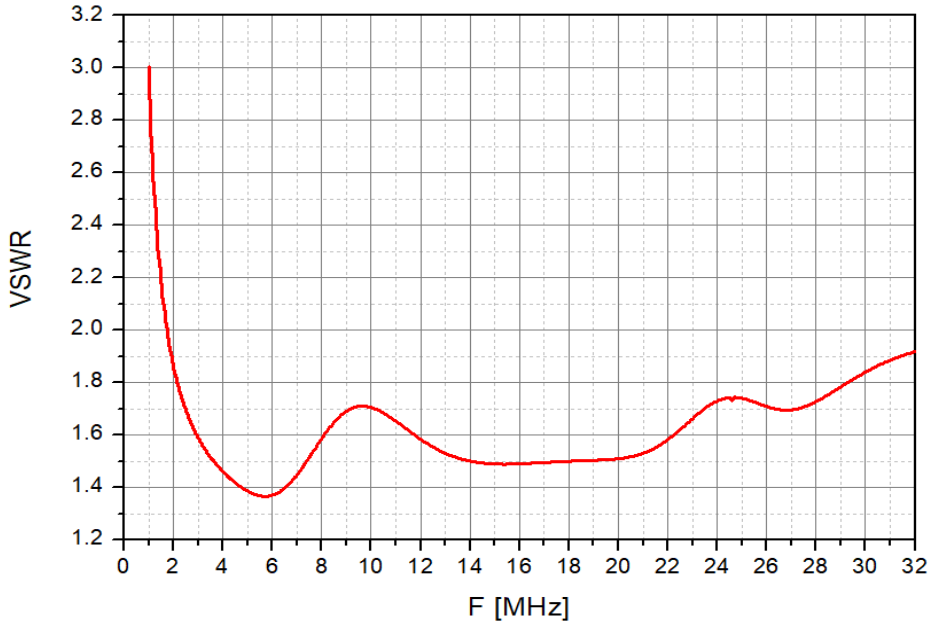


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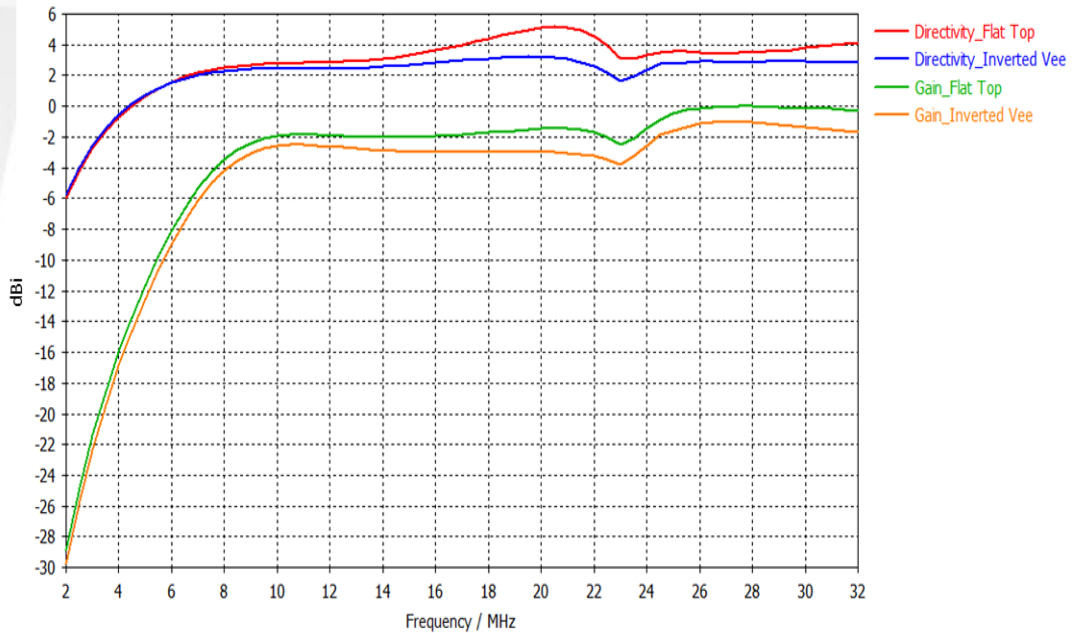
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## Performance Measurements



VSWR of Flat Top Folded Dipole Antenna



Inverted Vee and Flat Top Folded Dipole Antenna's Directivity and Gain

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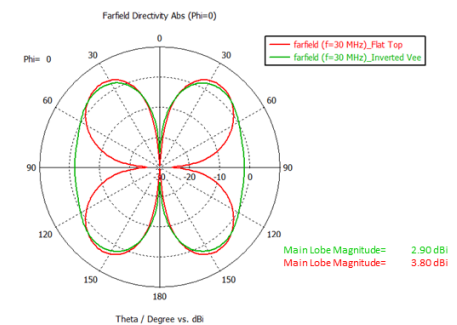
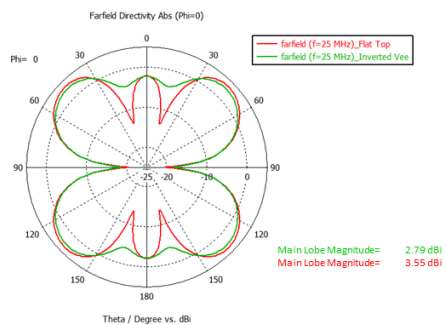
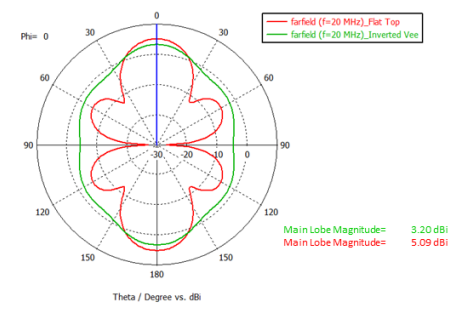
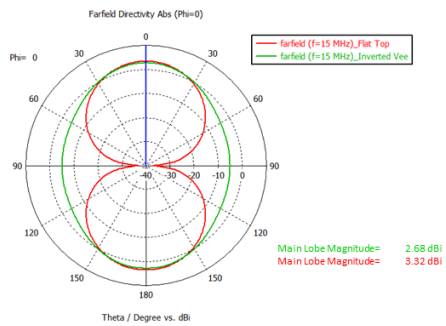
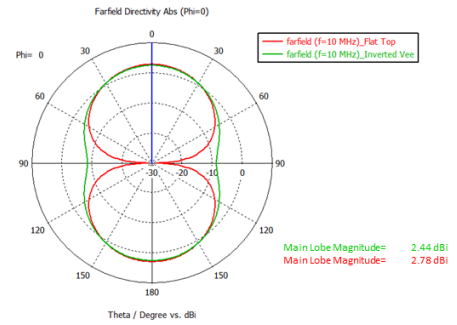
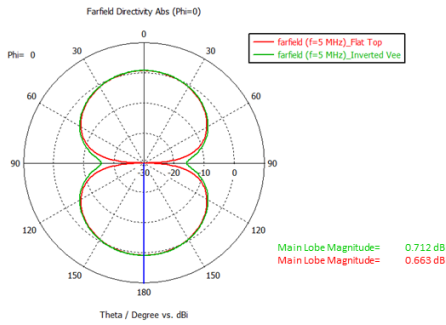
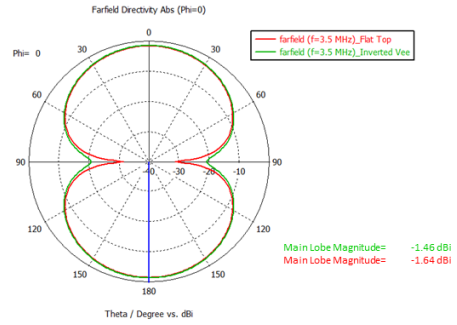
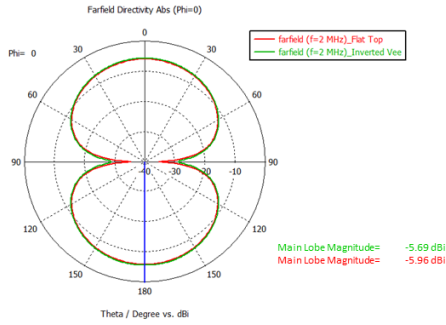


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## Performance Measurements



## Inverted Vee and Flat Top Folded Dipole Antenna's Farfield Paterns

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