



20-30-19
NSN 5985-99-151-7874
High Gain UHF SATCOM
Base Station Antenna
240 to 320 MHz

FEATURES

- **+ 13 dBiC Gain**
- **200 Watts CW Power**
- **Right hand Circular Polarization**
- **All Weather operation**
- **Includes Carrying Bag, Cable and Manual**
- **Quick Set-up and Stowage**
- **High wind loading acceptance**



The 20-30-19 is a right hand circularly polarized quick-erect antenna designed for a wide range of special operational requirements. As a free-standing tripod mounted device it provides +13 dBiC gain and can be “pointed” in any angle thru a solid 180° to align with the satellite.

The rugged mechanical design utilizes two “director booms” that plug-in together, one of which attaches to the swivel joint and mounting post.

CAL’s x-wing UHF Satcom antenna module with integral reflector plugs into the 9 element director boom assembly to provide a robust, high gain assembly that can be deployed in under two minutes. The antenna is supplied with a very versatile Tripod, carry bag, cable and deployment manual.

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SPECIFICATIONS

Cooper Antennas Model 20-30-19

High Gain UHF SATCOM Base Station Antenna

ELECTRICAL

Frequency	240 - 320 MHz
Gain (at beam max)	+13 dBiC nominal at 318 MHz
VSWR	≤ 1.5:1
Impedance	50 Ohms
Power	200 Watts CW
Polarization	Right Hand Circular
Antenna Connector	TNC Female
Operational Temperature	-46°C to +70°C
RF Cable	2 each 12 ft (3.6m) long
RF Cable Connectors	1 x TNC Male - TNC Male & 1 x TNC Male - N Male

MECHANICAL

Antenna Beam Length	65 inches (1651mm)
Element Diameter	23.5 inches (597mm)
Weight (Antenna and Tripod)	19 lbs (8.6kg)

STOWED SIZE

Length	45 inches (1143 mm)
Width	18 inches (457 mm)
Depth	20 inches (508 mm)

FINISH

Black anodised/lusterless black urethane paint and black composite material

Note: Cooper Antennas Ltd has a policy of continuous product improvement and data herein is therefore subject to change.
Please check with Cooper Antennas Ltd that this data sheet is at latest issue before initiating contract activity.