

SIMPLE, PORTABLE GROUNDPLANE ANTENNA

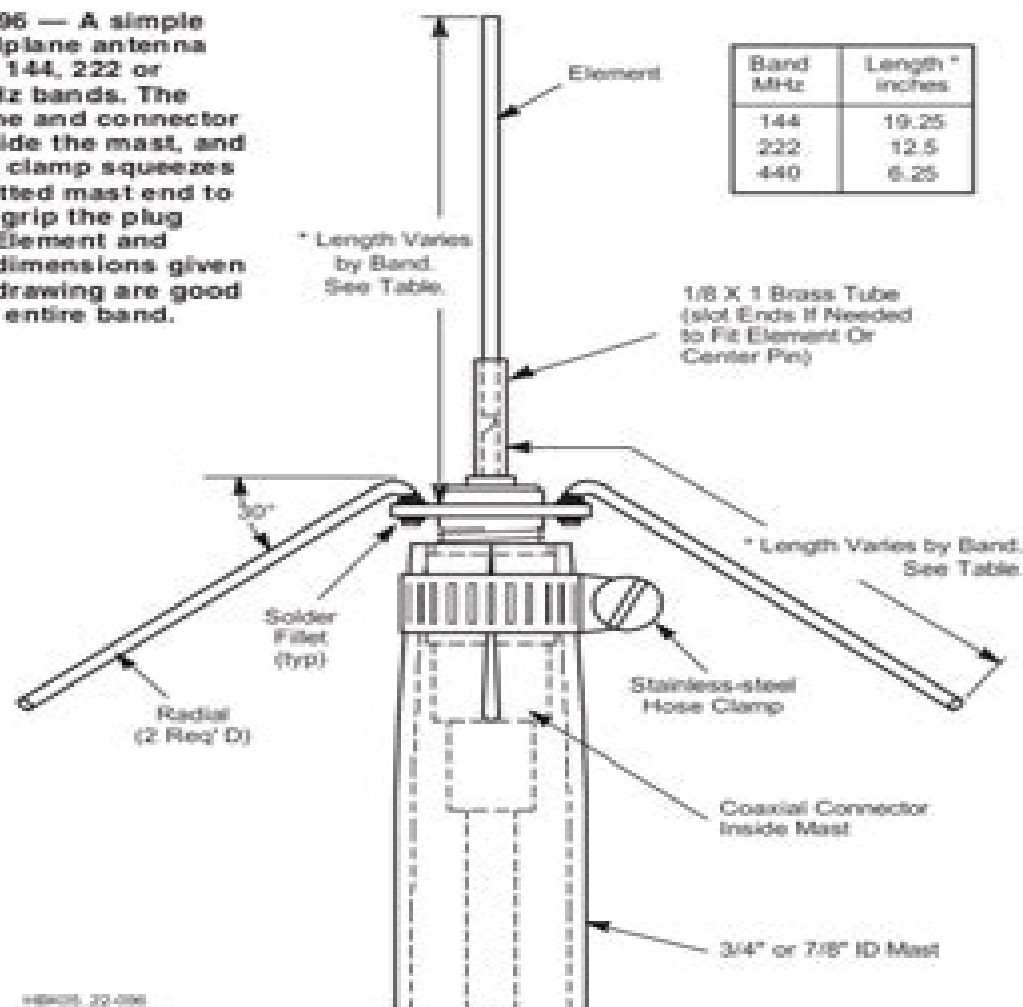
This utility antenna is built on a coaxial connector. UHF connectors work well, but you may prefer to use type N or BNC connectors. With only two radials, it is essentially two dimensional, which makes it easier to store when not in use.

If the antenna is sheltered from weather, copper wire is sufficiently rigid for the radi-

ating element and radials. Antennas exposed to the wind and weather can be made from brazing rod, which is available at welding supply stores. Alternatively, #12 or #14 copper-clad steel wire could be used to construct this antenna.

The ground-plane antenna is shown in Fig 22.96 and uses a female chassis-mount

Fig 22.96 — A simple groundplane antenna for the 144, 222 or 440-MHz bands. The feed line and connector are inside the mast, and a hose clamp squeezes the slotted mast end to tightly grip the plug body. Element and radial dimensions given in the drawing are good for the entire band.



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connector to support the element and two radials. To eliminate sharp ends, it's a good idea to bend the element and radial ends into a circle or to terminate them with a solder lug. See Fig 22.97. The solder lug approach is easier with stiff wire. Crimp and then solder the lug to the wire. Make the overall length of the element and radials the same as shown in Fig 22.96, measuring to the outer tip of the loop or lug.

Radials may be attached directly to the mounting holes of the coaxial connector. Bend a hook at one end of each radial for insertion through the connector. Solder the radials to the connector using a large soldering iron or propane torch.

Solder the element to the center pin of the connector. If the element does not fit inside the solder cup, use a short section of brass tubing as a coupler (a slotted 1/8-inch-ID tube will fit over an SO-239 or N-receptacle center pin).

Tune the antenna by adjusting the radial droop angle for best SWR. If necessary, you can also prune the element length.

One mounting method for fixed-station antennas appears in Fig 22.96. The feed line and connector are inside the mast, and a hose clamp squeezes the slotted mast end to tightly grip the plug body. Once the antenna is mounted and tested, thoroughly seal the open side of the coaxial connector with RTV sealant, and weatherproof the connections with rust-preventative paint.

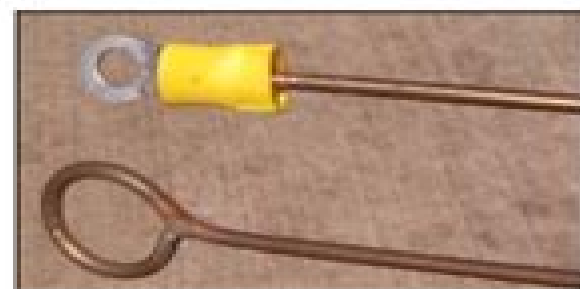


Fig 22.97 — Alternate methods for terminating element and radial tips on the simple groundplane antenna. See text. [Photo by KB9CH]

20 Meter High Gain Antenna Manual

Rachel S Tattersall



20 Meter High Gain Antenna Manual:

The ARRL Operating Manual for Radio Amateurs Mark J. Wilson, 2007 If you re an active ham radio operator you probably have a story about your first radio contact Many hams remember that experience even more than their first license examination

Handbook of Antennas in Wireless Communications Lal Chand Godara, 2018-10-03 The move toward worldwide wireless communications continues at a remarkable pace and the antenna element of the technology is crucial to its success With contributions from more than 30 international experts the Handbook of Antennas in Wireless Communications brings together all of the latest research and results to provide engineering professionals and students with a one stop reference on the theory technologies and applications for indoor hand held mobile and satellite systems Beginning with an introduction to wireless communications systems it offers an in depth treatment of propagation prediction and fading channels It then explores antenna technology with discussion of antenna design methods and the various antennas in current use or development for base stations hand held devices satellite communications and shaping beams The discussions then move to smart antennas and phased array technology including details on array theory and beamforming techniques Space diversity direction of arrival estimation source tracking and blind source separation methods are addressed as are the implementation of smart antennas and the results of field trials of systems using smart antennas implemented Finally the hot media topic of the safety of mobile phones receives due attention including details of how the human body interacts with the electromagnetic fields of these devices Its logical development and extensive range of diagrams figures and photographs make this handbook easy to follow and provide a clear understanding of design techniques and the performance of finished products Its unique comprehensive coverage written by top experts in their fields promises to make the Handbook of Antennas in Wireless Communications the standard reference for the field

Global Mobile Satellite Communications Theory Stojče Dimov Ilčev, 2016-09-23 This book discusses current theory regarding global mobile satellite communications GMSC for maritime land road and rail and aeronautical applications It covers how these can enable connections between moving objects such as ships road and rail vehicles and aircrafts on one hand and on the other ground telecommunications subscribers through the medium of communications satellites ground earth stations Terrestrial Telecommunication Networks TTN Internet Service Providers ISP and other wireless and landline telecommunications providers This new edition covers new developments and initiatives that have resulted in land and aeronautical applications and the introduction of new satellite constellations in non geostationary orbits and projects of new hybrid satellite constellations The book presents current GMSC trends mobile system concepts and network architecture using a simple mode of style with understandable technical information characteristics graphics illustrations and mathematics equations The first edition of Global Mobile Satellite Communications Springer 2005 was split into two books for the second edition one on applications and one on theory This book presents global mobile satellite communications theory

The ARRL Handbook for the Radio Amateur

,2000 **Space Antenna Handbook** William A. Imbriale, Steven Shichang Gao, Luigi Boccia, 2012-05-02 This book addresses a broad range of topics on antennas for space applications First it introduces the fundamental methodologies of space antenna design modelling and analysis as well as the state of the art and anticipated future technological developments Each of the topics discussed are specialized and contextualized to the space sector Furthermore case studies are also provided to demonstrate the design and implementation of antennas in actual applications Second the authors present a detailed review of antenna designs for some popular applications such as satellite communications space borne synthetic aperture radar SAR Global Navigation Satellite Systems GNSS receivers science instruments radio astronomy small satellites and deep space applications Finally it presents the reader with a comprehensive path from space antenna development basics to specific individual applications Key Features Presents a detailed review of antenna designs for applications such as satellite communications space borne SAR GNSS receivers science instruments small satellites radio astronomy deep space applications Addresses the space antenna development from different angles including electromagnetic thermal and mechanical design strategies required for space qualification Includes numerous case studies to demonstrate how to design and implement antennas in practical scenarios Offers both an introduction for students in the field and an in depth reference for antenna engineers who develop space antennas This book serves as an excellent reference for researchers professionals and graduate students in the fields of antennas and propagation electromagnetics RF microwave millimetrewave systems satellite communications radars satellite remote sensing satellite navigation and spacecraft system engineering It also aids engineers technical managers and professionals working on antenna and RF designs Marketing and business people in satellites wireless and electronics area who want to acquire a basic understanding of the technology will also find this book of interest **Operator and Organizational Maintenance Manual for**

Improved High-powered Illuminator Radar Set AN/MPQ-46 (XO-1) ,1972 **Global Mobile Satellite Communications** Stojce Dimov Ilcev, 2005-12-05 Global mobile satellite communications GMSC are specific satellite communication systems for maritime land and aeronautical applications It enables connections between moving objects such as ships vehicles and aircrafts and telecommunications subscribers through the medium of communications satellites ground earth stations PTT or other landline telecommunications providers Mobile satellite communications and technology have been in use for over two decades Its initial application is aimed at the maritime market for commercial and distress applications In recent years new developments and initiatives have resulted in land and aeronautical applications and the introduction of new satellite constellations in non geostationary orbits such as Little and Big LEO configurations and hybrid satellite constellations as Ellipso Borealis and Concordia system This book is important for modern shipping truck train and aeronautical societies because GMSC in the present millennium provides more effective business and trade with emphasis on safety and commercial communications Global Mobile Satellite Communications is written to make bridges between potential

readers and current GMSC trends mobile system concepts and network architecture using a simple mode of style with understandable technical information characteristics graphics illustrations and mathematics equations Global Mobile Satellite Communications represents telecommunications technique and technology which can be useful for all technical staff on vessels at sea and rivers on all types of land vehicles on planes on off shore constructions and for everyone possessing satellite communications handset phones **The Radio Amateur's Handbook** ,1979 Direct Support and General Support Maintenance Manual ,1989 Technical Manual United States. War Department,1960

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