



User Guide
for the
AlphaLoop Booster Cable
for 40 to 80 meters

Manufactured by:
Alpha Antenna

Website: <http://AlphaAntenna.com>

For support contact us at
1.888.482.3249
support@alphaantenna.com

User Guide Version 2.1

October 27, 2016



Table of Contents

Safety Information	3
SECTION 1 – Specific Deployments	4
A.1 – Image	4

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail or email us a marked copy to the contact information on the last page of this manual.

REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR)

If your Alpha Multiband Antenna needs improvement, let us know. You, the user, are the only one who can tell us what you don't like about your equipment. Mail or email us an EIR to the contact information on the last page of this manual.

Excess RF Exposure Warning

In the United States, the Federal Communications Commission has established guidelines for human exposure to Radio Frequency (RF) electromagnetic fields. The commission's requirements are detailed in parts 1 & 2 of the FCC's rules and regulations {47 CFR, 1.1307(b), 1.1310, 22.1091, 2.1093}. It is the responsibility of the owner/operator of this device to follow all applicable warnings and precautions regarding human exposure to RF fields.

The FCC Office of Engineering Technology (OET) Bulletin 65, Supplement B, Evaluating Compliance with FCC Guidelines for Human Exposure to Radio frequency Electromagnetic Fields directly concerns the use and operations of all Alpha Antenna systems. This bulletin establishes safe operating distances from antennas associated power levels in order to permit the operator and persons who may be impacted by operation to exist in a safe environment. Guidelines for Maximum Permissible Exposure, or MPE, are defined in Supplement B of the bulletin.

IMPORTANT NOTE:

Refer to the above mentioned Supplement B along with FCC OET Bulletin 65, Version 97-01. The information in the supplement provides additional details that are used for evaluating compliance of amateur radio stations with FCC guidelines for exposure to radio frequency electromagnetic fields. Supplement B users should, however, also consult Bulletin 65 for complete information on FCC policies, guidelines, and compliance related issues. Definitions of terms used in this supplements appear in Bulletin 65. Bulletin 65 can be viewed and downloaded from the FCC's Office of Engineering and Technology's web site at: <http://www.fcc.gov/oet/rfsafety>



Safety Information

When installing or operating this antenna or any other antenna/tower, please observe the following safety tips.

NOTE – High voltages are present when transmitting, no matter how much or little power is applied. Do not touch any part of the antenna while transmitting.

WARNING: INSTALLATION OR OPERATION OF THIS PRODUCT NEAR POWER LINES IS DANGEROUS! FOR YOUR SAFETY, FOLLOW THE ENCLOSED INSTALLATION DIRECTIONS. THOUGH THIS ANTENNA IS CONSTRUCTED WITH INSULATED MATERIALS, PROPER CARE MUST BE TAKEN DURING INSTALLATION. INSTALLER ASSUMES ALL LIABILITY FOR PROPERTY AND LIFE SAFETY.

YOU, YOUR ANTENNA, AND SAFETY

Each year, hundreds of people are killed, mutilated, or receive severe and permanent injuries when attempting to install an antenna. In many of these cases, the victim was aware of the danger of electrocution, but did not take adequate steps to avoid the hazard. For your safety, and to help you achieve a good installation, please **READ** and **FOLLOW** the safety precautions below. **THEY MAY SAVE YOUR LIFE!**

1. If you are installing an antenna for the first time, please, for your own safety as well as others, seek PROFESSIONAL ASSISTANCE.
2. Select your installation site with safety, as well as performance, in mind. **REMEMBER:** ELECTRIC POWER LINES AND PHONE LINES LOOK ALIKE. FOR YOUR SAFETY, ASSUME THAT ANY OVERHEAD LINES CAN KILL YOU.
3. Call your electric power company. Tell them your plans and ask them to come take a look at your proposed installation. This is a small inconvenience, considering **YOUR LIFE IS AT STAKE.**
4. Plan your installation procedure carefully and completely *before* you begin. Successful raising of a mast or tower is largely a matter of coordination. Each person should be assigned a specific task, and should know what to do and when to do it. One person should be designated as the leader/coordinator of the operation to call out instructions and watch for signs of trouble.
5. When installing your antenna, **REMEMBER: DO NOT USE A METAL LADDER. DO NOT WORK ON A WET OR WINDY DAY. DO DRESS PROPERLY:** shoes with rubber soles and heels, rubber gloves, long sleeved shirt or jacket.
6. If the assembly starts to drop, get away from it and let it fall. Remember, the antenna, mast, cable and metal guy wires are all excellent conductors of electrical current. Even the slightest touch of any of these parts to a power line completes an electrical path through the antenna and the installer – **THAT'S YOU!**
7. If ANY PART of the antenna system should come in contact with a power line, **DON'T TOUCH IT OR TRY TO REMOVE IT YOURSELF. CALL YOUR LOCAL POWER COMPANY.** They will remove it safely. If an accident should occur with the power lines, call for qualified emergency help **IMMEDIATELY.**

αANTENNA

SECTION 1 – Specific Deployments

The AlphaLoop Booster Cable enables your 10-40 meter Magnetic Loop Antenna to transmit and receive on 40, 60 & 80 meters at 20 watts PEP SSB. The AlphaLoop Booster Cable also increases the efficiency for 80 through 40 meters.

The Booster Cable consists of a specially tuned section of Times Microwave LMR-400 coax plus a double-female SO239/UHF connector that connects to either PL259 on your 10-40 meter outer loop, resulting in a 120% increase in a double loop configuration. The Booster Cable is easily installed or uninstalled with Velcro straps.

Step 1 – Setup your 10-40 Meter Alpha Loop per that products manual

Step 2 – Disconnect one PL259 from the outer loop on the 10-40 Meter Alpha Loop

Step 3 – Screw the disconnected PL259 into one side of the SO239 barrel connector included with the Booster Cable, so that the outer loop and Booster Cable are in Series

Step 4 – Double the newly formed loop around twice so the Booster Cable's unused PL259 comes in contact with open the SO239 on the grey Alpha Match box

Step 5 – Screw the PL259 on the Booster Cable into the SO239 on the grey Alpha Match box

Step 6 – Affix the loops together with the included Velcro straps at the 1, 4, 7, & 11 o'clock positions

Step 7 – Attach your coax from your radio to the SO239

Step 8 – Return to the 10-40 Meter Alpha Loop manual for tuning instructions

A.1 – Image

