

INSTALLATION INSTRUCTIONS

©2020

Clip-on Ground Kit for Coaxial Cable Applications



1194 IB H (Page 1 of 2)

PRODUCT DESCRIPTION

The Clip-on Ground Kit is designed to comply with all RoHS directives, MIL-STD-188-124A, and has been verified by independent labs to withstand the damaging effects of lightning current in excess of 200kA. The pre-formed copper (or tinned copper) strap and associated hardware facilitates a proper attachment to the coaxial cable, insuring that the performance of the coax is not being compromised. The 6-gauge, 7-strand copper wire provides the most practical and effective low-inductance transfer of lightning induced current from your coax to your system ground. Installation of ground kits is recommended at the top and bottom of each vertical run, at 200 ft. increments and just prior to building entry.

NOTICE

Installation of this product should only be performed by trained, qualified, and experienced personnel. Installation instructions for this product should be read thoroughly before installation is performed. The manufacturer and supplier of this product disclaims any liability or responsibility for the results of improper or unsafe installation practice. This Ground kit has been designed to function around the coaxial cable outer conductor dimensions published by the cable manufacturers. The manufacturer of this Ground Kit disclaims any liability for inadequate performance resulting from dimensionally incorrect coaxial cable.

MATERIAL LIST

- (1) Pre-formed copper (or tinned copper) ground strap assembly with unterminated ground lead*
- (1) Roll 2-1/2" (63.5mm) x 24" (609.6mm) butyl mastic
- (1) Roll 2" (50.8mm) x 20' (6.1m) electrical tape
- (1) Heat shrink tube*
- (1) Crimp-on 3/8" 2-hole universal or 1-hole lug
 - (2) 3/8" x 1" bolts
 - (2) 3/8" nuts
 - (2) 3/8" lock washers
 - (2) 3/8" flat washer

*Factory attached Clip-on Ground Kits are supplied with a 3/8" 2-hole or 1-hole crimp lug and heat-shrink tubes pre-applied.



REQUIRED TOOLS

- Knife
- 7/16" Open end wrench
- #6 Crimp tool (For unattached versions)
- Heat gun or equivalent (for unattached versions)
- 9/16" Socket Wrench
- 9/16" Open End Wrench

STEP 1

Verify that all parts are present as outlined in the material list above. (GK-C158 shown)



STEP 2

Remove approximately 2" (50.8mm) of the outer jacket from a straight section of coax cable.

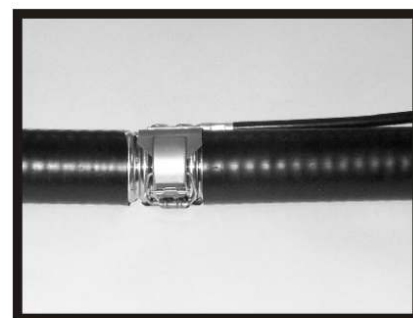
NOTE: Care should be taken when removing the jacketing to prevent scoring of the copper outer conductor. The exposed outer



conductor should be free from foreign debris, grease or moisture.

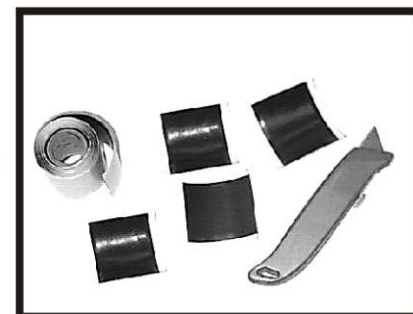
STEP 3

Install the pre-formed copper (or tinned copper) strap around the exposed outer conductor, hook the bailing clip into position, and pull the latch closed to create a clamping effect.



STEP 4

Cut four 2" (50.8mm) pieces of butyl mastic.

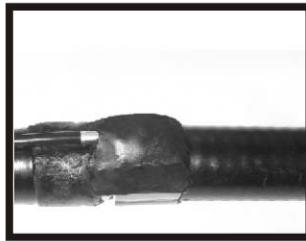


STEP 5

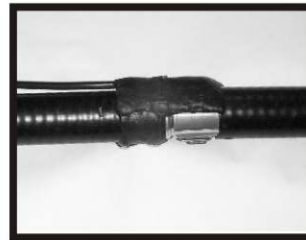
Place one of the 2" (50.8mm) butyl mastic pieces under the ground wire cable, as close to the clamp as possible.

**STEP 6**

Fold one of the 2" (50.8mm) pieces of butyl mastic in half and place over the riveted ground lug and copper hardware to act as a filler. **NOTE:** Mold the mastic to the ground lead to insure a proper seal.

**STEP 7**

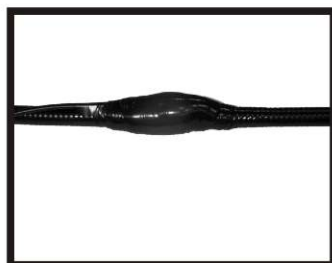
Place one of the 2" (50.8mm) pieces of butyl mastic over the end of the ground lead as shown. **NOTE:** Mold the mastic to the ground lead to insure a proper seal.

**STEP 8**

Apply one layer of butyl mastic, overlapping the coax jacket by 1" (25.4mm) on each end of the exposed outer conductor. Overlap each wind by one-half of the width of the mastic. Cut any remaining mastic and dispose of it properly. **NOTE:** All parts of the ground kit and outer conductor should be sealed by the mastic.

**STEP 9**

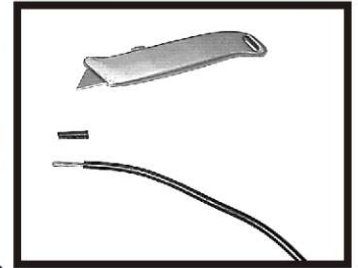
Apply three overlapping layers of vinyl electrical tape extending 2" (50.8mm) beyond the butyl mastic. Cut the remaining tape and dispose of properly. **NOTE:** Proceed to step 13 if using Clip-on Kit with factory attached ground lugs.

**STEP 10**

Cut ground lead to the desired length and remove approximately 3/4" (19.1mm) of the jacket from the end.

NOTE: Once bonded to ground point, ground lead should be as straight as possible and installed in a downward direction. (Below the ground strap)

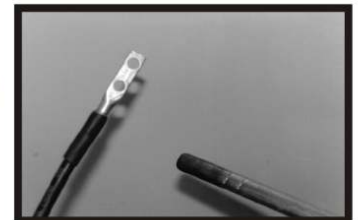
NOTE: All bends in the ground lead should be no smaller than an 8" (203.2mm) radius.

**STEP 11**

Slide the appropriate #6 lug over the end of the ground lead and crimp in two places using a hand crimping tool as shown.

**STEP 12**

Slide the heat shrink tube over the end of the lug and use a heat gun to shrink it into position as shown.

**STEP 13**

Clean the ground point thoroughly and bolt the lug into position using the appropriate hardware provided.

