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## **Installation Instructions**

## **R-Stack | Deadbreak Elbow with Integrated Connecting Plug**

Applicable Current Ratings600A (Aluminum)900A (Copper)	Applicable Voltage Classes 15/25/28kV	<b>Applicable Fastener Type</b> F Style (Female)
Applicable Catalog Prefix 15/25/28kV 62CF 92CF	For Use With the Following Cable Types Jacketed Concentric Neutral (JCN) Longitudinally Corrugated Neutral (LC) Tape Shield Neutral	
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- System must be de-energized during installation or future operation of this product or its components.
- Do not touch or move energized connectors or components by hand.
- Excess distortion of the assembled connector may result in its failure.
- Failure to follow these instructions will result in damage to the connector and serious or fatal injury.
- This product should only be installed and/or operated by trained personnel in accordance with normal and safe work procedures.
- Variations in equipment or configuration or work procedures may not be covered in these instructions.
- Please contact Richards Manufacturing for any additional questions.

### **KIT CONTENTS**

Standard kits may include the following. Custom kits may vary.

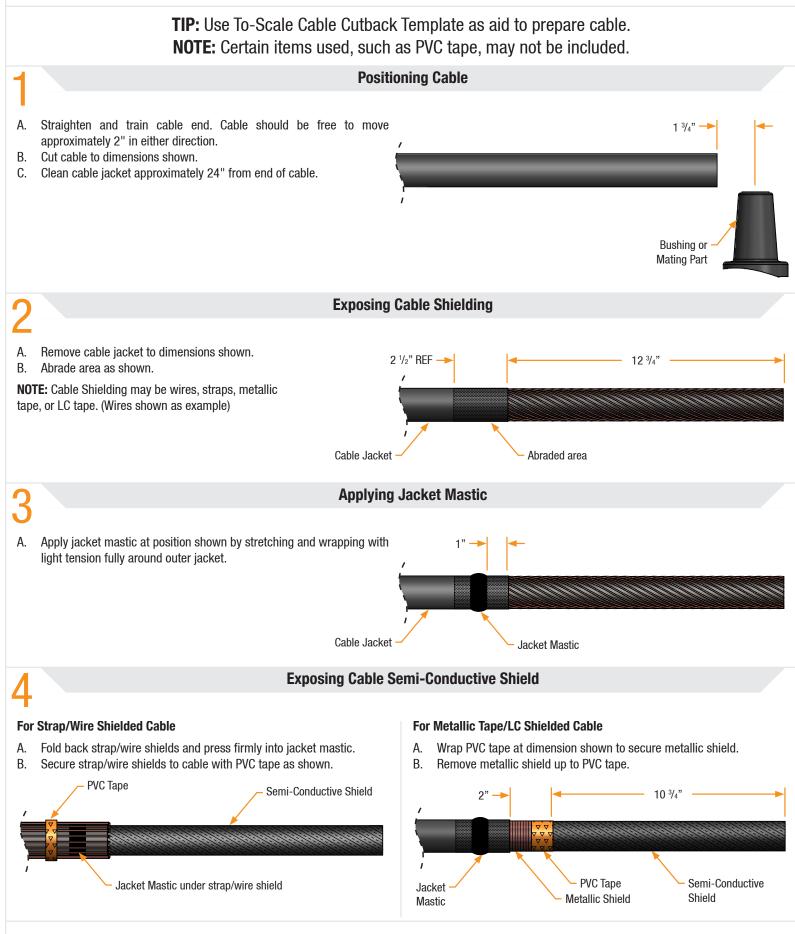
Check package contents to be sure they are complete, undamaged, and properly sized for the application.



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NOTE: Confirm all dimensions with To-Scale Cable Cutback Template before proceeding.

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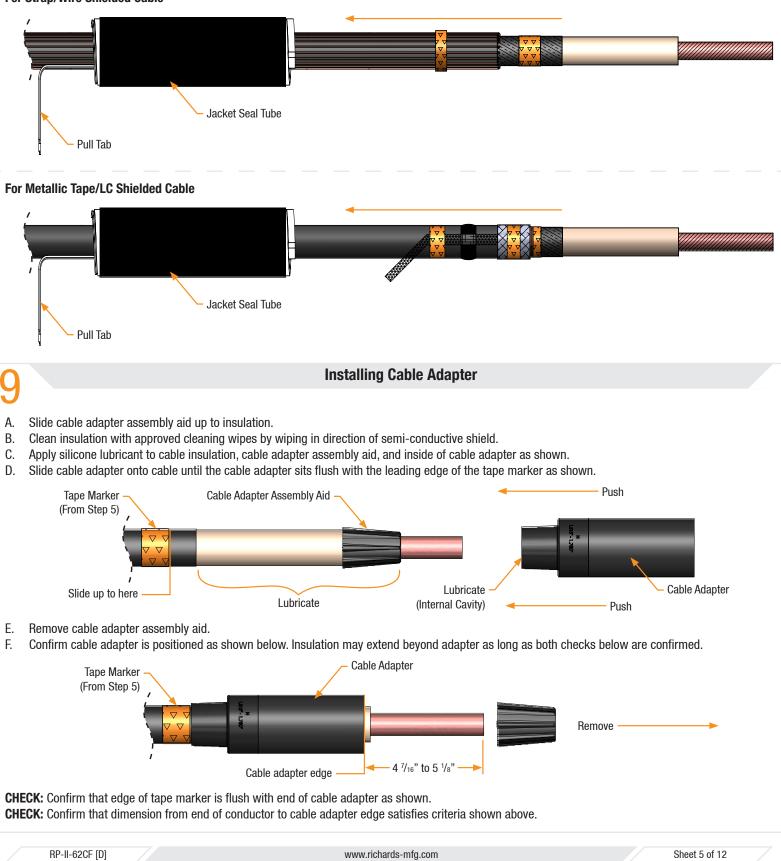


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### **Parking Jacket Seal Tube**

A. Slide jacket seal tube onto cable as shown. If using a cold shrink tube, orient pull tab facing away from cable end.

### For Strap/Wire Shielded Cable









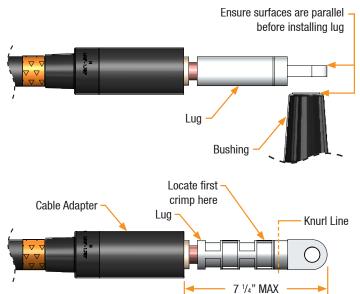
### **Installing Lug**

- A. Clean conductor of any debris. For aluminum conductor, wire brush and immediately insert lug onto conductor. Slide lug until the conductor is fully seated within the lug barrel.
- B. Rotate lug so that spade is parallel to the contact face of the bus as shown.
- C. For Shear Bolt Connectors: Install lug using separate instructions provided with lug.

**For Crimp Connectors:** Select correct tool and die using crimp chart supplied with lug. Crimp lug (min. number indicated in crimp chart) starting just below knurl line adjacent to pad. Carefully wipe any excess inhibitor from lug and cable insulation.



Confirm that the distance from the end of the lug to the cable adapter after installing is as shown. Otherwise redo assembly.





### **Installing R-Stack**

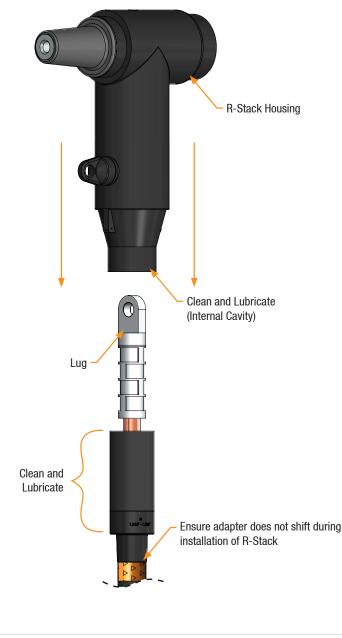
- A. Clean and lubricate (using supplied or approved silicone grease) entire surface of cable adapter and cable entrance of R-Stack.
- B. Without moving cable adapter, push R-Stack onto cable adapter and slide until lug is fully seated inside housing. Confirm cable adapter has not shifted by observing tape marker. Cable adapter and tape marker should be aligned as they were in the "Installing Cable Adapter" step.

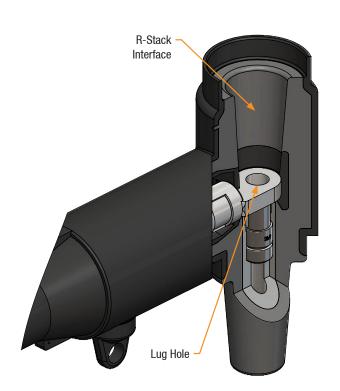


WARNING: Confirm cable adapter does not shift from proper positioning during installation of R-Stack housing.



WARNING: Confirm the lug has fully seated into housing as shown.





**R-Stack** 



### **Mounting R-Stack**

A. Hand-tighten stud into the appropriate mating part or bushing.



WARNING: The stud MUST fully thread on. No threads should be visible on the bushing (male) interface. If any threads are visible, confirm correct stud is being used and check for cross-threading/thread damage.

- B. Clean and lubricate (using supplied or approved silicone grease) interface of R-Stack and interface of mating part or bushing.
- C. Insert supplied or approved alternative hex tool through interface and engage fastener.
- D. Place one hand on the power cable directly below R-Stack and one hand on the body of the R-Stack. Lifting together, push R-Stack onto mating part, lining up the hole in the lug with the stud on the mating part.

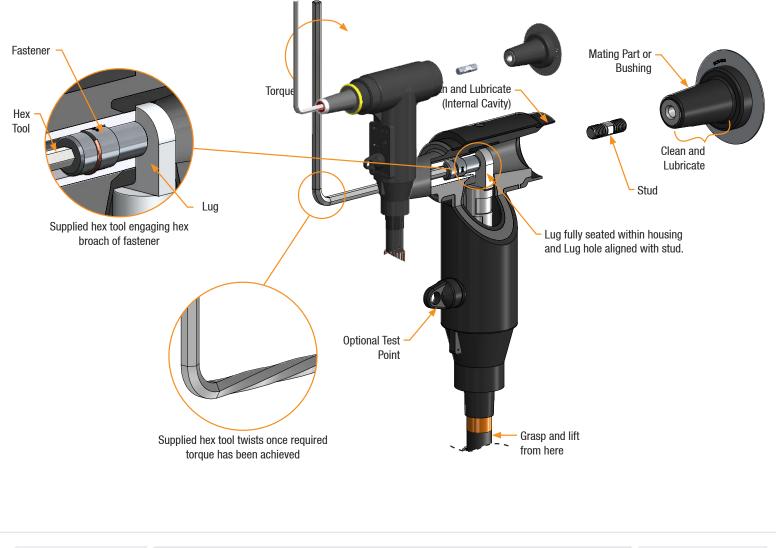


WARNING: Ensure Lug spade is completely seated and Lug hole is aligned with stud before tightening assembly.



CHECK: Observe positioning of elbow/cable adapter/lug assembly, before and after mounting, to determine if the lug has shifted position. If a shift is observed repeat assembly to restore correct positioning and re-do this step.

E. Rotate Fastener with hex tool to engage threads and tighten the assembly. Tighten to 50-60 ft. lbs. The supplied hex tool will twist, as shown below, once the required torque has been achieved.



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### Mating Male Deadbreak Interface

- A. Hand-tighten stud into threaded contact of R-Stack as shown.
- B. Clean and lubricate (using supplied or approved silicone grease) interface of R-Stack and interface of insulating cap or mating part.
- C. Assemble R-Stack and mating part according to manufacturer's instructions. Insulating Cap shown as reference.



Clean and

Lubricate



### **Applying Sealing Mastic**

### For Strap/Wire Shielded Cable

- A. Apply sealing mastic over previously applied mastic and on top of folded back neutral wires by stretching and wrapping with light tension.
- B. Apply sealing mastic by stretching and wrapping with light tension fully around nose of cable adapter for a width of 1" as shown below.



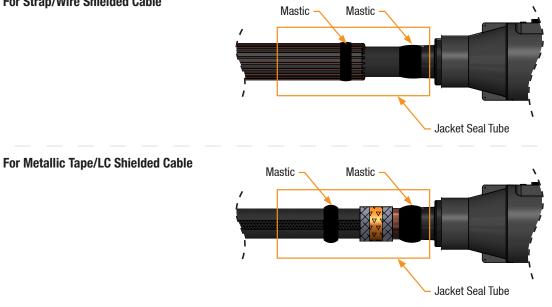
#### For Metallic Tape/LC Shielded Cable

- A. Apply sealing mastic over previously applied mastic and on top of solder block by stretching and wrapping with light tension.
- B. Apply sealing mastic by stretching and wrapping with light tension fully around nose of cable adapter for a width of 1" as shown below.



### **Applying Jacket Seal Tube**

A. Beginning with the side closer to the cable adapter, deploy the jacket seal in area shown below ensuring both mastics are completely covered. For Strap/Wire Shielded Cable



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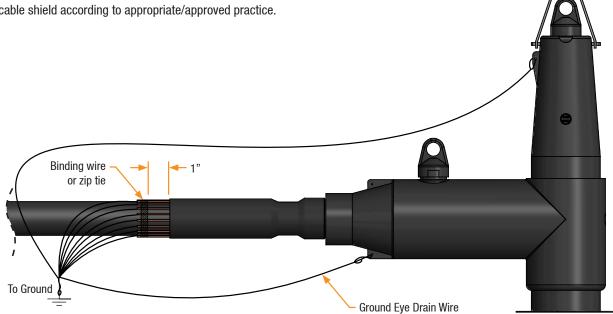
**R-Stack** 



### Installing Drain Wire and Grounding Metallic Shield

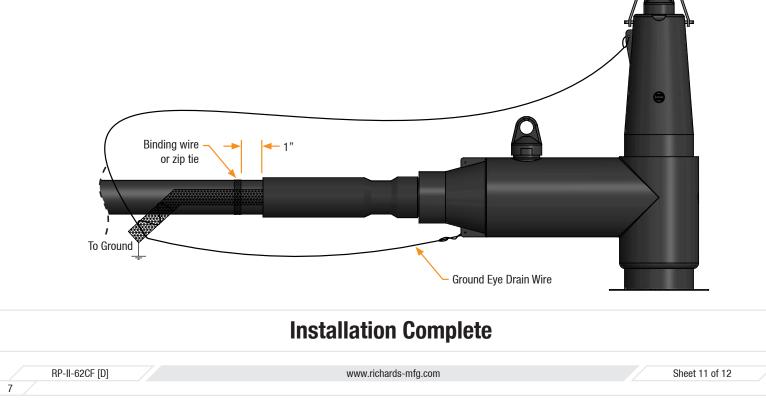
### For Strap/Wire Shielded Wires

- Secure neutrals with binding wire or zip tie 1" from jacket seal tube. A.
- Insert one end of a piece of wire (#14 AWG copper or larger) through one of the available grounding eyes and twist to make a small loop. Be sure not to B. damage grounding eye.
- Connect other end of wire to shield wires. C.
- Ground the cable shield according to appropriate/approved practice. D.



### For Metallic Tape Shielded/LC Shielded

- Secure copper braid with binding wire or zip tie 1" from jacket seal tube. A.
- Insert one end of a piece of wire (#14 AWG copper or larger) through one of the available grounding eyes and twist to make a small loop. Be sure not to B. damage grounding eye.
- C. Connect other end of wire to copper braid.
- D. Ground the cable shield according to appropriate/approved practice.







Product Family



