

517 Lyons Ave, Irvington, NJ 07111 Phone: 973-371-1771 Fax: 973-371-4304 www.richards-mfg.com

Installation Instructions

Deadbreak Elbow



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LC Series





- 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.







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Exposing Cable Insulation

For Strap/Wire Shielded Cable

- A. Remove semi-conductive shield to dimensions shown.
- B. Place PVC tape marker at dimension shown.

For Metallic Tape/LC Shielded Cable

- A. Remove semi-conductive shield to dimensions shown.
- B. Check that tape from previous step is 1" from the edge of the semiconductive shield as it will serve as a marker.



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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

For Crimp Connectors

- 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 bushing or mating part as shown.
- C. 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.



For Range Taking Connectors

- A. Refer to lug bag for centering ring selection. Install centering rings into each barrel opening. 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 bushing or mating part as shown. Hand tighten shear bolts in tightening sequence shown.

NOTE: Your lug may have fewer bolts, but sequence is tightening bolts closest to cable entrance and working way towards spade.

C. Fully tighten bolts in tightening sequence shown. The bolt will break free when the required torque value is reached.



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A. After installing lug, confirm distance from lug end to the cable adapter does not exceed dimension shown.



WARNING: Do not exceed maximum dimension shown.



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Checking Lug

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Installing Elbow

- A. Clean and lubricate (using supplied or approved silicone grease) entire surface of cable adapter and cable entrance of elbow.
- B. Without moving cable adapter, push elbow onto cable adapter and slide until lug is fully seated inside elbow. 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 elbow housing.



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

NOTE: If equipped with a capacitive test point, ensure test point is facing outwards for accessibility.









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Mounting Elbow

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 elbow and interface of mating part or bushing.
- C. Place one hand on the power cable directly below elbow and one hand on the body of the elbow. Lifting together, push elbow onto mating part, lining up the hole in the lug with the stud on the mating part.



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.







Installing Mating Component

A. Clean and lubricate (using supplied or approved silicone grease) the remaining elbow interface and mating part interface as shown.



WARNING: Ensure stud is through lug hole as shown before tightening assembly.

- B. Insert mating part, engage threads, and hand-tighten.
- C. **For Insulating Plugs:** Engage hex nut and tighten to 50-60 ft lbs using appropriate tool. Lubricate interior of insulating plug cap and push on to install.

For all other mating parts: Install mating part per manufacturer instructions.





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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Installing Drain Wire and Grounding Metallic Shield

For Strap/Wire Shielded Wires

- A. Secure neutrals with binding wire or zip tie 1" from jacket seal tube.
- B. 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 damage grounding eye.
- C. Connect other end of wire to shield wires.
- D. Ground the cable shield according to appropriate/approved practice.



For Metallic Tape Shielded/LC Shielded

- A. Secure copper braid with binding wire or zip tie 1" from jacket seal tube.
- B. 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 damage grounding eye.
- C. Connect other end of wire to copper braid.
- D. Ground the cable shield according to appropriate/approved practice.





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