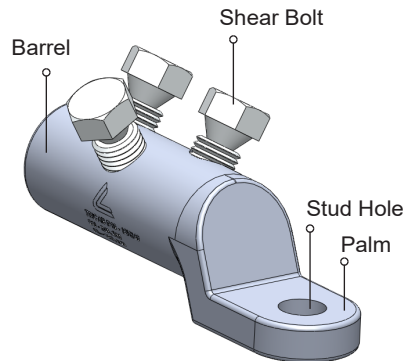
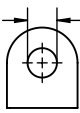


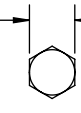

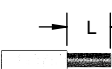




# B10

## ALI-FLEX® CU-FLEX® Shear Bolt Lug Installation Guide



**Table 1: B10 SELECTION TABLE - ALI-FLEX/ CU-FLEX SHEAR BOLT LUG**

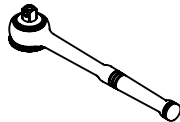
| Product Code    | TriCab Flexible Conductor (mm <sup>2</sup> )  |  | Ø Stud Hole<br><br>mm | Bolt Size<br><br>M | Bolt QTY<br><br>EA | A/F<br><br>mm | Recommended Shearing Torque<br><br>Nm | Stripping Length<br><br>mm |
|-----------------|---|--|--|---|---|--|--|---|
|                 | Copper<br> | Aluminium<br> |  |   |   |  |  |   |
| B10-ACXX/12H50  | 50, 70, 95  | 35, 50   | 13   | M12   | 2   | 14   | 20 ± 3   | 38  |
| B10-ACXX/12H95  | 95, 120   | 70, 95   | 13   | M14   | 2   | 17   | 35 ± 5   | 53  |
| B10-ACXX/12H150 | 150, 185  | 120, 150   | 13   | M18   | 2   | 19   | 42 ± 5   | 70  |
| B10-ABXX/12H240 | 240, 300  | 185, 240   | 13   | M18   | 3   | 19   | 42 ± 5   | 84  |
| B10-ABXX/12H400 | 400, 500  | 300, 400   | 13   | M18   | 3   | 19   | 42 ± 5   | 94  |
| B10-ABXX/12H500 | 630   | 500  | 13   | M18   | 4   | 19   | 45 ± 5   | 113   |
| B10-ABXX/12H630 | -   | 630  | 13   | M18   | 4   | 19   | 45 ± 5   | 120   |
| B10-ABXX/12H800 | 800   | 800  | 13   | M18   | 4   | 19   | 50 ± 5   | 136   |

### Tools required

1. Hex socket with correct A/F size

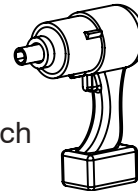


2. Torque wrench

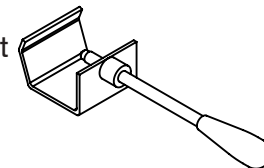


OR

Electric impact wrench



3. Holding tool is highly recommended to provide support to shearbolt during shearing process as well as to prevent conductor bending



This Installation Guide was designed with great care and proper testing before publication to ensure the product works perfectly with TriCab flexible cables. However, when using this product with different cables other than TriCab flexible cables, it is sole responsibility of user to make their own tests, calculations to determine the suitability. TriCab is not liable for any errors, omissions, damages etc. due to improper use of this product, included but not limited to improper installation deviating from this Guide, safety and warning rules violation, using unsuitable cable other than TriCab flexible cable. TriCab reserves the right to modify this Installation Guide at any time without prior notice.

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# B10

## ALI-FLEX® CU-FLEX® Shear Bolt Lug Installation Guide

1. Select a suitable size of **ALI-FLEX®/ CU-FLEX® Shear Bolt Lug** as specified on the B10 Selection Table. Verify that the conductor size marking on the lug and cable match.

Untighten the shear bolts until there is sufficient clearance inside the barrel for the cable.

2. Mark the stripping length on the cable as specified on the B10 selection Table. Carefully cut and strip the outer layers of the cable (sheathing, insulation, fleece tape). Be very careful not to nick or cut any strands of the conductor. Adjust the stripping tool so that it cuts close to the conductor but leaves a small amount of insulation to tear away by hand. This will help protect the fine wires during the stripping process.

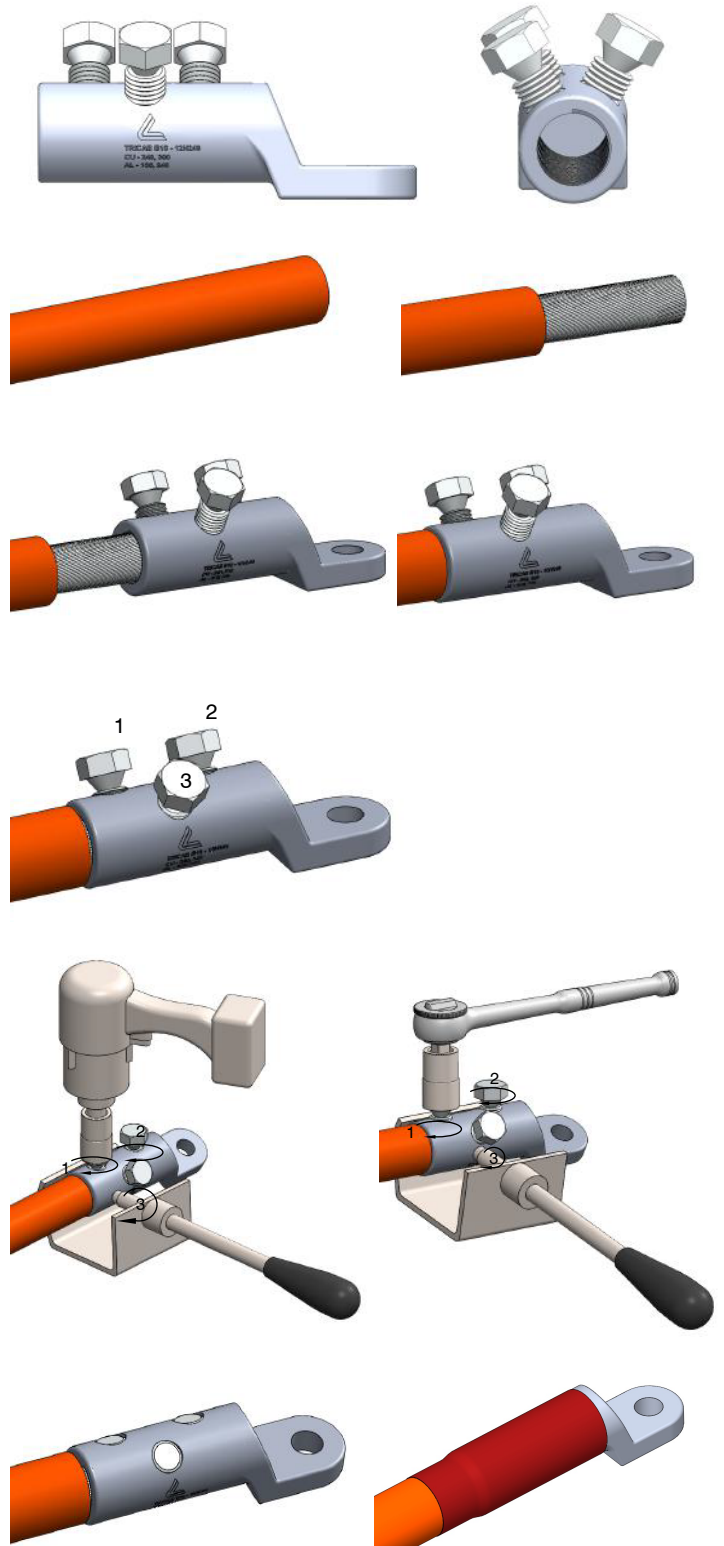
3. Carefully insert the conductor into the lug making sure all strands are contained within the barrel. Do not twist the conductor. The last bolt hole can be used to check if the conductor is inserted fully to the end of the barrel.

4. Hand-tighten the shear bolts for temporary fixing of the conductor to the lug. For lugs with 2 or 4 bolts, the tightening order of shear bolts must be from the barrel side of the lug towards the palm side. For lugs with 3 bolts, the order is as marked in the diagram with the 2 end bolts tightened first and then the middle bolt.

5. Select a suitable manual socket wrench or electric impact wrench and a Hex socket with the correct A/F size as mentioned in the B10 Selection Table. Adjust the torque to the recommended value (refer B10 selection table). Make sure the lug is held firmly in place as shown in the adjacent images. Tighten the first bolt until the bolt head is sheared. The shearing order should be the same as the tightening order specified above. Repeat the shearing process until all bolts are sheared.

When using an electric impact wrench, make sure the torque is sufficient and the battery is at a high level

6. Check the shearing results and remove any remaining grease. Apply suitable **ALI-FLEX® G03 Glue Lined Heatshrink** to complete the termination. The heatshrink should cover the entire barrel and approximately 50mm of the cable jacket.



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