600 A 35 kV class BT-TAP™ connector system installation instructions
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We strongly urge that you always follow all locally approved safety procedures and safety instructions when working around high voltage lines and equipment, and support our “Safety For Life” mission.

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### Safety information

The instructions in this manual are not intended as a substitute for proper training or adequate experience in the safe operation of the equipment described. Only competent technicians who are familiar with this equipment should install, operate, and service it.

A competent technician has these qualifications:

- Is thoroughly familiar with these instructions.
- Is trained in industry-accepted high and low-voltage safe operating practices and procedures.
- Is trained and authorized to energize, de-energize, clear, and ground power distribution equipment.
- Is trained in the care and use of protective equipment such as arc flash clothing, safety glasses, face shield, hard hat, rubber gloves, clampstick, hotstick, etc.

Following is important safety information. For safe installation and operation of this equipment, be sure to read and understand all cautions and warnings.

### Hazard Statement Definitions

This manual may contain four types of hazard statements:

#### DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

#### WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

#### CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

CAUTION: Indicates a potentially hazardous situation which, if not avoided, may result in equipment damage only.

#### DANGER

Hazardous voltage. Contact with hazardous voltage will cause death or severe personal injury. Follow all locally approved safety procedures when working around high- and low-voltage lines and equipment.

#### WARNING

Before installing, operating, maintaining, or testing this equipment, carefully read and understand the contents of this manual. Improper operation, handling or maintenance can result in death, severe personal injury, and equipment damage.

#### WARNING

This equipment is not intended to protect human life. Follow all locally approved procedures and safety practices when installing or operating this equipment. Failure to comply can result in death, severe personal injury and equipment damage.

#### WARNING

Power distribution and transmission equipment must be properly selected for the intended application. It must be installed and serviced by competent personnel who have been trained and understand proper safety procedures. These instructions are written for such personnel and are not a substitute for adequate training and experience in safety procedures. Failure to properly select, install or maintain power distribution and transmission equipment can result in death, severe personal injury, and equipment damage.
Deadbreak apparatus connectors

Introduction
Eaton terminates high-voltage underground cable on deadfront apparatus such as transformers, switches, and switchgear with its Cooper Power™ series 600 A 35 kV Class BT-TAP™ deadbreak connectors. They are fully shielded, submersible, and meet the requirements of IEEE Std 386™-2006 standard – “Separable Insulated Connector Systems”. 600 A deadbreak connectors from Eaton are fully interchangeable with all other manufacturers that also certify compliance with IEEE Std 386™-2006 standard. The BT-TAP connector is rated for 900 A when used with all copper current carrying components.

Read this manual first
Read and understand the contents of this manual and follow all locally approved procedures and safety practices before installing or operating this equipment.

Additional information
These instructions cannot cover all details or variations in the equipment, procedures, or process described nor provide directions for meeting every possible contingency during installation, operation, or maintenance. For additional information, contact your representative.

Acceptance and initial inspection
Each deadbreak connector is in good condition when accepted by the carrier for shipment. Upon receipt, inspect the shipping container for signs of damage. Unpack the deadbreak connector and inspect it thoroughly for damage incurred during shipment. If damage is discovered, file a claim with the carrier immediately.

Handling and storage
Be careful during handling and storage of the deadbreak connector to minimize the possibility of damage. If the deadbreak connector is to be stored for any length of time prior to installation, provide a clean, dry storage area.

Standards
ISO 9001 Certified Quality Management System

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**WARNING**

All associated apparatus must be de-energized during any hands-on installation or maintenance.

**WARNING**
The 600 A BOL-T Connector System is designed to be operated in accordance with normal safe operating procedures. These instructions are not intended to supersede or replace existing safety and operating procedures. The elbow connector should be installed and serviced only by personnel familiar with good safety practices and the handling of high-voltage electrical equipment.

**WARNING**
Optional Capacitive Test Point Operating Instructions: Use only voltage indicating instruments specifically designed for test points. Use of conventional voltage sensing devices may provide false “No Voltage” indications.

The test point must be dry and free of contaminant’s when checking for voltage. After indication is taken: clean, dry, and lubricate the test point cap with silicone grease and assemble to the test point.

The capacitive test point is not sufficiently accurate, nor is it intended for, actual voltage measurements or phasing operations.

A reading of no voltage from the test point should not be the only indication of a de-energized circuit obtained before touching the connector. Other procedures can include direct conductor voltage testing or grounding using a live-line tool.

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**DANGER**

All associated apparatus must be de-energized during any hands-on installation or maintenance.
Note: If concentric neutral cable is not being used, follow cable preparation directions in shield adapter kit.

Equipment provided

- BT-TAP Connector assembly kit includes:
  - T-body
  - Cable adapter
  - Shear Bolt connector with 11/16" unthreaded spade
  - BT-TAP Loadbreak reducing tap plug (BLRTP)
  - Extended length stud
  - 200 A Loadbreak protective cap (when furnished)
  - Silicone lubricant
  - Instruction sheets

Tools required

- 5/16” Hex shaft (Catalog number HD635)
- Cable Stripping tools
- Torque Wrench
- 5 mm or 8 mm Allen wrench

Installation of connectors

Shear bolt installation procedures
(for compression connector procedures, see page 8)

Prepare the cable

Step 1.

Train cable

- Position cable vertically so that it is centered between apparatus bushing and parking pocket, parallel to, and 7" (178 mm) from apparatus frontplate.
- Provide adequate cable slack for cable movement between standoff bushing and apparatus bushing.
- Support cable as needed to maintain position.
- Cut cable to length "A" from centerline of bushing. (Refer to Figure 3 and Table 2 for "A" length.)

Figure 3. Line illustration for cable training.

Figure 2. Strip back dimensions.
## Table 1. Shear bolt connector

<table>
<thead>
<tr>
<th>Cable conductor size</th>
<th>Shear bolt connector</th>
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<tbody>
<tr>
<td>AWG or kcmil</td>
<td>Compact</td>
</tr>
<tr>
<td>1/0</td>
<td>1/0</td>
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<tr>
<td>2/0</td>
<td>2/0</td>
</tr>
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<td>3/0</td>
<td>3/0</td>
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<td>4/0</td>
<td>4/0</td>
</tr>
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<td>500</td>
<td>500</td>
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</table>

## Table 2. Shear bolt stripback dimensions

<table>
<thead>
<tr>
<th>Length variable</th>
<th>Measurement name</th>
<th>Tolerance in. (mm)</th>
<th>Connector code</th>
<th>S1</th>
<th>S3</th>
<th>S4</th>
<th>S6</th>
<th>S8</th>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Allen wrench (mm)</td>
<td>5</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cutbacks</td>
<td>in (mm)</td>
<td>in (mm)</td>
<td>in (mm)</td>
<td>in (mm)</td>
<td>in (mm)</td>
</tr>
<tr>
<td>A</td>
<td>Bushing to cable</td>
<td>+/- ¼ (+/- 6.4)</td>
<td></td>
<td>2 (50.8)</td>
<td>2 (50.8)</td>
<td>2 (50.8)</td>
<td>2 (50.8)</td>
<td>2 (50.8)</td>
</tr>
<tr>
<td>B</td>
<td>Jacket</td>
<td>+/- ¼ (+/- 6.4)</td>
<td></td>
<td>13 (330.2)</td>
<td>13 (330.2)</td>
<td>13 (330.2)</td>
<td>13 (330.2)</td>
<td>13 (330.6)</td>
</tr>
<tr>
<td>C</td>
<td>Insulation shield</td>
<td>+/- 1/8 (+/- 3.2)</td>
<td></td>
<td>10½ (266.7)</td>
<td>10½ (266.7)</td>
<td>10½ (266.7)</td>
<td>10½ (266.7)</td>
<td>10½ (273)</td>
</tr>
<tr>
<td>D</td>
<td>Conductor</td>
<td>+/- 1/8 (+/- 3.2)</td>
<td></td>
<td>2¼ (57.2)</td>
<td>2¼ (69.9)</td>
<td>3¼ (82.6)</td>
<td>4 (101.6)</td>
<td>4-13/16 (122.2)</td>
</tr>
<tr>
<td>E</td>
<td>Cable adaptor check</td>
<td>Maximum</td>
<td></td>
<td>7½ (190.5)</td>
<td>7½ (190.5)</td>
<td>7½ (190.5)</td>
<td>7½ (190.5)</td>
<td>7½ (190.5)</td>
</tr>
</tbody>
</table>

600 A 35 kV class BT-TAP connector system installation instructions  MN650003EN  February 2019
Step 2.

Remove concentric neutral wires or jacket

Note: Care should be taken to not cut or score the neutral conductors when cutting the cable jacket.

- Measure reference length "B" from end of cable. (Refer to Figure 4 and Table 2 to determine variable "B" length.)
  - For jacketed neutral cable, remove jacket to "B" dimension.
  - For unjacketed neutral cable, bind neutral wires using three (3) wraps of tape at "B" dimension.
- Pull back concentric neutral wires. Allow enough extra concentric neutral wires to connect to ground after installation and allow movement to insulated standoff bushing.

Step 3.

Remove insulation shield

- Remove insulation shield length "C" from end of cable. (Refer to Figure 5 and Table 2 to determine variable "C" length.)

Note: Do not cut or nick insulation.

Step 4.

Put tape marker in place

- Measure 1' (25 mm) from end of insulation shield. (Refer to Figure 5.)
- Wrap two turns of tape to serve as marker for cable adapter location.

Figure 5. Line illustration of cable stripback.

Step 5.

Remove conductor insulation

Note: Do not pencil cable.

- Remove insulation exposing bare conductor to length of "D". (Refer to Figure 6 and Table 2 to determine variable "D" length.)

Note: Do not unwind conductor strands.

Figure 6. Line illustration of bare conductor length.

Step 6.

Bevel insulation

- Remove sharp edge of insulation by beveling at a 45° angle for approximately 1/4" (6 mm). (Refer to Figure 7.)

Figure 7. Line illustration of insulation bevel.
Step 7.
Clean insulation

**Note:** Do not apply solvent directly to cable.

- Clean insulation thoroughly with solvent dampened rag, wiping from conductor end toward insulation shield. (Refer to Figure 8.)
- Ensure that all traces of conductive residue are removed.

![Figure 8. Line illustration of insulation cleaning.](image)

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Step 8.
Lubricate and install cable adapter

- Lubricate exposed cable insulation.
- Lubricate inside of cable adapter.
- Slide small end of cable adapter over cable using twisting motion until small end is flush with tape marker. (Refer to Figure 9.)
- After sliding the cable adapter into position make sure that no bulge is present. (Refer to Figure 10.)

![Figure 9. Line illustration of insulation cable adapter.](image)

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**WARNING**

Equipment Damage/Personal Injury. Improperly positioned cable adapter may result in equipment damage or personal injury.
Step 9.
Install compression connector
Note: Refer to separate installation instructions supplied with the shear bolt connector.
- Install centering ring.
  - Refer to Figure 11 and Table 1 to determine what size conductors require a centering ring and the correct color to use.
- Wire brush conductor (aluminum only).
- Immediately insert the conductor completely into the barrel of the lug and rotate connector to distribute inhibitor.
- Align flats of connector and apparatus bushing for minimum conductor strain.

Step 10.
Check dimensions
- Check length from end of compression connector to top of cable adapter.
  Length should be no longer than “E” dimension. (Refer to Figure 12 and Table 2.)

![Figure 12. Line illustration for dimensional check.](image_url)

Install BT-TAP T-body with mating parts

Step 11.
Install DT635 T-body
- Clean and lubricate outside of cable adapter with lubricant supplied.
- Clean and lubricate inside of T-body with lubricant supplied.

Note: If test point T-body is used, insure test point is opposite front plate side of T-body.
- Without moving the cable adapter, slide T-body onto cable adapter until compression connector eye is centered in 600 A interfaces. (Refer to Figure 13.)

Note: The end of the cable adapter must line up with the top edge of the tape marker after T-body assembly. Refer to Figure 10.
- Remove tape marker from cable.

Figure 11. Mechanical lug tightening sequence.

Note: Connector must be fully seated on cable conductor.
- With an Allen hex key as specified in Table 2 screw in bolt No. 1 until it breaks off smoothly. Proceed with bolt No. 2 in a similar way. If the lug has more than two (2) bolts, continue with bolt No. 3 and bolt No. 4, (not shown in Figure 11). See Figure 11 for tightening sequences.
- Once all the bolts have broken off, smooth any rough edges with a file and install the covering caps. Carefully clean off any filings.
- Wipe excess inhibitor from connector and adapter surfaces.
Figure 13. Line illustration of T-body installation.

- Go to Step 12, page 12 to complete T-body termination.
Compression connector installation procedures

Equipment provided
- BT-TAP Connector Assembly Kit includes:
  - T-body
  - Cable adapter
  - Compression connector with 11/16” unthreaded spade
  - BT-TAP Loadbreak reducing tap plug (BLRTP)
  - Extended Length Stud
  - 200 A Loadbreak protective cap (when furnished)
  - Silicone lubricant
  - Instruction sheets

Tools required
- 5/16” Hex shaft (Catalog number HD635)
- Cable Stripping tools
- Torque wrench
- 5 mm or 8 mm Allen wrench

Prepare the cable
Step 1.
Train cable
- Position cable vertically so that it is centered between apparatus bushing and parking pocket, parallel to, and 7” (178 mm) from apparatus frontplate.
- Provide adequate cable slack for cable movement between standoff bushing and apparatus bushing.
- Support cable as needed to maintain position.
- Cut cable 1 3/4” (44 mm) from centerline of bushing. Refer to Figure 14.

Table 3. Conductor size and type

<table>
<thead>
<tr>
<th>Compression connector</th>
<th>AWG or kcmil (mm²)</th>
<th>AWG or kcmil (mm²)</th>
<th>Compression conductor code</th>
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</thead>
<tbody>
<tr>
<td>No connector</td>
<td>00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>#2 35</td>
<td>11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>#1 1/0 50</td>
<td>12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2/0 70 3/0 95</td>
<td>13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4/0 250 120 300 15</td>
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<td>250 350 185</td>
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<td>300 400 190 200 18</td>
<td>16</td>
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<td>650 350 750</td>
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<td>750 900 25</td>
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<tr>
<td>1000 500 27</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1250 630 28</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Figure 14. Line illustration for cable training.
Step 2.
Remove concentric neutral wires or jacket
Note: Care should be taken to not cut or score the neutral conductors when cutting the cable jacket.
- Measure 13" (330 mm) from end of cable. (Refer to Figure 15.)
  - For jacketed neutral cable, remove jacket to 13" dimension.
  - For unjacketed neutral cable, bind neutral wires using three (3) wraps of tape at 13" dimension.
- Pull back concentric neutral wires. Allow enough extra concentric neutral wires to connect to ground after installation and allow movement to insulated standoff bushing.

Step 3.
Remove insulation shield
- Remove insulation shield 10 1/2" (267 mm) from end of cable. (Refer to Figure 16.)
Note: Do not cut or nick insulation.

Step 4.
Put tape marker in place
- Measure 1" (25 mm) from end of insulation shield. (Refer to Figure 16.)
- Wrap two turns of tape to serve as marker for cable adapter location.

Step 5.
Remove conductor insulation
- Remove insulation exposing bare conductor to length of 4 1/2" (114 mm). (Refer to Figure 17.)
Note: Do not unwind conductor strands.

Step 6.
Bevel insulation
- Remove sharp edge of insulation by beveling at a 45° angle for approximately 1/4" (6 mm). (Refer to Figure 18.)
Step 7.
Clean insulation

Note: Do not apply solvent directly to cable.

- Clean insulation thoroughly with solvent dampened rag, wiping from conductor end toward insulation shield. (Refer to Figure 19.)
- Ensure that all traces of conductive residue are removed.

Figure 19. Line illustration of insulation cleaning.

Step 8.
Lubricate and install cable adapter

- Lubricate exposed cable insulation.
- Lubricate inside of cable adapter.
- Slide small end of cable adapter over cable using twisting motion until small end is flush with tape marker. (Refer to Figure 20.)

Figure 20. Line illustration of insulation cable adapter.

- After sliding the cable adapter into position make sure that no bulge is present. (Refer to Figure 21.)

Step 9.
Install compression connector

Note: Refer to the separate installation instructions supplied with the shear bolt connector.

- Wire brush conductor (aluminum only).
- Remove protective cap from compression connector.
- Insert conductor completely into compression connector and rotate connector to distribute inhibitor.

Note: Connector must be fully seated on cable conductor.

- Align flats of compression connector and apparatus bushing for minimum conductor strain.
- Make first crimp 1/2" (13 mm) below shoulder of compression connector. (Refer to Figure 22.)
- Rotate each successive crimp 90° on compression connector and allow 1/8" (3 mm) between crimps.
- Wipe excess inhibitor from connector and adapter surfaces.

WARNING
Equipment Damage/Personal Injury. Improperly positioned cable adapter may result in equipment damage or personal injury.
Step 10.

Check dimensions

- Check length from end of compression connector to top of cable adapter.
  - Length should be between 6 3/4" and 7 3/4" (171 - 197 mm). (Refer to Figure 23.)

Figure 22. Line illustration of crimping area.

Figure 23. Line illustration for dimensional check.
Completing T-body termination

Step 11.
Install DT635 T-body
- Clean and lubricate outside of cable adapter with lubricant supplied.
- Clean and lubricate inside of T-body with lubricant supplied.

Note: If test point T-body is used, insure test point is opposite front plate side of T-body.
- Without moving the cable adapter, slide T-body onto cable adapter until compression connector eye is centered in 600 A interfaces. (Refer to Figure 24.)

Note: The end of the cable adapter must line up with the top edge of the tape marker after T-body assembly. Refer to Figure 21.
- Remove tape marker from cable.

Step 12
Install stud into apparatus bushing
- Ensure unit is de-energized.
- Thread the shorter threaded end of extended stud into the apparatus bushing until hand tight. (Refer to Figure 25).
- Engage the flats on the stud with a 1/2" wrench and thread the stud into the bushing an additional 1/4 revolution past hand tight.
- Remove any shavings that may have been raised during the threading procedure.

Install BT-TAP connector assembly onto apparatus bushing

Step 13
Install T-body onto apparatus bushing
- Clean and then lubricate mating interfaces of apparatus bushing and T-body with lubricant supplied.
- Push T-body onto apparatus bushing ensuring that the stud on the bushing passes through the hole of the compression connector. See Figure 26.
Step 14
Install reducing tap plug
• Clean and lubricate mating interfaces of T-body and reducing tap plug (BLRTP).
• Insert BLRTP into back of T-body engaging the threads of the stud. See Figure 27.
• By hand, turning clockwise, thread BLRTP in as far as possible.

![Figure 27. Line illustration of BLRTP installation.](image1)

• Using a 3/8” drive torque tool and HD635 (5/16” hex shaft), complete threading clockwise until tight. Torque to 55 ft-lbs. See Figure 28.

![Figure 28. Line illustration of tightening termination.](image2)

Step 15
Check tightness of termination
• Check tightness by hand by moving T-body forward and back (perpendicular to the apparatus frontplate). Do not move side to side as this may loosen the connection.
• If tight:
  • Re-torque to 55 ft-lbs.
• If loose:
  • Remove BLRTP and T-body from apparatus bushing.
  • Inspect threads of the stud and BLRTP for damage. If damaged, replace damaged component and re-install per previous installation instructions.
  • If no damage is found, re-install per previous installation instructions.

Step 16
Cap the 200 A interface
• Clean and lubricate 200 A interface of BLRTP and mating product (i.e., Protective Cap, Grounding Elbow, M.O.V.E. Arrester) with lubricant supplied. (Refer to Figure 29.)
• Follow installation instructions supplied with product used.

![Figure 29. Line illustration of protective cap installation.](image3)
Step 17

Ground system

• Connect tie-off tabs of BLRTP and T-body with a strand of drain wire to cable concentric neutral wires to common ground point. (Refer to Figure 30.)

• Connect 200 A product (i.e., Protective Cap, Grounding Elbow, M.O.V.E. Arrester) drain wire to common ground.

• Connect concentric neutral wires to common ground point leaving adequate slack for hotstick operation.

• Seal off jacket as required. (Tape sealing compound or shrink tubing.)

![Figure 30. Line illustration of grounding.](image)
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Deadbreak apparatus connectors

Catalog data MN650003EN
Effective January 2019

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