

E

## Blackburn®/Color-Keyed®/Homac® - Tools, dies and kits



—  
E

**Blackburn/Color-Keyed/Homac -  
Tools, dies and kits**

---

# Table of contents

## Section E

|                                                        |     |
|--------------------------------------------------------|-----|
| <b>Warranty and service providers</b>                  | E4  |
| <b>Manual compression tools</b>                        | E6  |
| <b>Metric compression tools</b>                        | E12 |
| <b>Power-assisted compression tools</b>                | E13 |
| <b>Manual and power-assisted<br/>compression tools</b> | E20 |
| <b>Hydraulic pumps</b>                                 | E24 |
| <b>Cable strippers, cutters<br/>and other tools</b>    | E27 |
| <b>Installing dies</b>                                 | E31 |
| <b>Manual compression tools<br/>and cutters</b>        | E47 |
| <b>Cutting dies and other tools</b>                    | E48 |
| <b>Replacement batteries</b>                           | E49 |
| <b>Hydraulic PowerTap™ system</b>                      | E50 |
| <b>Assorted die kits</b>                               | E51 |
| <b>Tool cross reference</b>                            | E53 |

## Warranty and service providers



### Warranty and service providers

ABB Tool Service has a staff of highly trained, experienced and dedicated technicians and application specialists to support our customers in every aspect of their tooling needs.

The Tool Service department is capable of repairing all ABB tools, from small tools to large hydraulic pumps and crimping heads. The department is also responsible for warranty repairs and will supply a loaner tool when necessary.

For customers capable of repairing their own tools, Tool Service also sells the component parts. In addition, the department can provide the technical data and information required.

Other services include the calibration or certification of tools to meet applicable standards, including “in house” certification of tools for larger OEMs in conjunction with the ISO 9000 programs.

#### Corporate ABB Tool Service

8735 Hamilton Road, Southaven, MS 38671  
Tel.: 662-342-1545 ext. 3930  
1-800-284-8665  
Fax: 662-393-3929

#### Centre de réparation hydraulique Uptown Ltée

1213 rue Tellier  
Laval, Quebec H7C 2H1  
Tel.: 450-728-1818  
Fax: 450-667-8335

### Huskie Repair Depots for battery-operated tools are:

#### INNOVA Quebec

1040 Boulevard Industriel  
Granby, Quebec J2J 1A4  
Tel.: 450-777-1240 ext.: 230  
Fax: 450-372-9936  
yfabre@xtirpa.com

#### PEFCO Ontario

1734 Finch Avenue  
Pickering, Ontario L1V 1K4  
Tel.: 905-427-9294  
Fax: 904-427-0540  
jmasonpefco@sympatico.ca

### LINESTAR Utility Supply (4 branches)

#### British Columbia

17949 Roan Place  
Surrey, British Columbia V3S 5K1  
Tel.: 604-594-2701  
Toll free: 1-866-594-2701  
Fax: 604-594-2751  
sales@linstar.ca

#### Alberta

1 – 1381 Hastings Crescent SE  
Calgary, Alberta T2G 4C8  
Tel.: 403-243-1900  
Toll free: 1-877-248-6657  
Fax: 403-243-2063  
salesab@linstar.ca

#### Manitoba/Saskatchewan

1103 Keewatin Street  
Winnipeg, Manitoba R2X 2Z3  
Tel.: 204-783-9771  
Fax: 204-783-8951

#### Ontario

Unit 2 – 7015 Ordan Dr.  
Mississauga, Ontario L5T 1Y2  
Tel.: 905-564-5344  
Toll free: 1-844-564-5344  
Fax: 905-564-5354

Note: For CEMBRE tools, please contact your sales representative.

## Warranty and service providers

### Limited warranty

ABB manufactures its tools to be free of defects in material and workmanship for the time specified below. Should any defect occur during the specified time period, ABB will repair or replace the tool at its option.

### Limitations and exclusions

This warranty is in lieu of all other representations and expressed and implied warranties (including the implied warranties of merchantability and fitness for use) and under no circumstances shall ABB be liable for any incidental or consequential property damages or losses. This warranty is non-transferable and replacement of defective parts must be made at a facility designated by the manufacturer.

### 90 days

- Electronic alloy operated tools (printers, testers)
- Individual dies

### 1 year

- Pneumatic tools
- Cable cutters, strippers
- ID systems
- All NI-MH battery operated tools (Cembre)

### 2 years

- Mechanical hand tools with ratchet or Shure Stake® mechanism
- Hydraulic pumps (battery-operated tools included)

### 5 years

- Hydraulic tools (self-contained and remote heads)
- All LI-Ion battery-operated tools (Huskie)

Direct all inquiries to the ABB regional sales office in your area.

## Manual compression tools



### TBM45S crimp tool

- Wide range of #8 to #2 for copper lugs and #10 to #6 for aluminum lugs
- Each die has die code embossing
- Shure Stake mechanism ensures a properly completed crimp each time
- Colour-coded die wheel rotates into position for proper die nest adjustment
- Also installs up to green colour-coded C-Taps and MD2 series motor disconnects
- Requires two crimps per connector

| Cat no. | Description                                                                     | Pkg. qty. |
|---------|---------------------------------------------------------------------------------|-----------|
| TBM45S  | Crimp tool with Shure Stake mechanism for #8–#2 copper and #10–#6 aluminum lugs | 1         |

—  
02  
Crimp-Assist™ foot provides stability when work surface leverage is needed to crimp larger connectors.



01



02

|                            | Conductor size |            |            |            |             |             |
|----------------------------|----------------|------------|------------|------------|-------------|-------------|
|                            | #10<br>Red     | #8<br>Red  | #6<br>Blue | #4<br>Grey | #2<br>Brown | #1<br>Green |
| <b>Copper connectors</b>   |                |            |            |            |             |             |
| One hole, short            | —              | 54104      | 54134      | 54138      | 54107       | —           |
|                            | —              | 54130      | 54105      | 54106      | 54142       | —           |
|                            | —              | 54131      | 54135      | 54139      | 54143       | —           |
|                            | —              | 54132      | 54136      | 54140      | 54145       | —           |
|                            | —              | 54104      | 54205      | 54206      | 54207       | —           |
| Splice, short              | —              | 54504      | 54505      | 54506      | 54507       | —           |
| One hole, long             | —              | 54930BE    | 54905BE    | 54906BE    | 54942BE     | —           |
| Two hole, long             | —              | 54850BE    | 54852BE    | 54854BE    | 54856BE     | —           |
| Splice, long               | —              | 54804      | 54805      | 54806      | 54807       | —           |
| Cable joints               | —              | —          | 54610      | 54615      | 54620       | —           |
| Narrow tongue              | —              | —          | —          | 55112      | 55116       | —           |
| C-taps                     | —              | 54705      | 54710      | 54715      | 54720       | 54725       |
| Motor disconnects          | —              | MD8 series | MD6 series | MD4 series | MD2 series  | —           |
| <b>Aluminum connectors</b> |                |            |            |            |             |             |
| One hole                   | 60096          | 60101      | 60106      | —          | —           | —           |
|                            | 60096          | 60102      | 60107      | —          | —           | —           |
|                            | 60099          | 60103      | 60108      | —          | —           | —           |
|                            | —              | 60104      | 60109      | —          | —           | —           |
| Splices                    | 60500          | 60501      | 60507      | —          | —           | —           |
| Bi-pins                    | —              | 61905A     | 61910A     | —          | —           | —           |
| Equipment lugs             | —              | 61102      | 61107      | —          | —           | —           |

## Manual compression tools

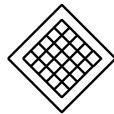


Creates indent-style crimp

### TBM4S dieless crimp tool

- Wide range of #8 to 250 kcmil for copper lugs and #8 to 4/0 for aluminum lugs
- Adjustable indenter eliminates the need to buy and maintain numerous individual dies
- Shure Stake mechanism ensures a properly completed crimp each time
- Easily adjusted by turning knurled adjusting wheel and aligning pointer with proper terminal size
- Dieless adjustable crimper for Color-Keyed compression connectors

| Cat no. | Description                                                                                    | Pkg. qty. |
|---------|------------------------------------------------------------------------------------------------|-----------|
| TBM4S   | Dieless crimp tool with Shure Stake mechanism for #8–250 kcmil copper and #8–4/0 aluminum lugs | 1         |



Creates diamond-style crimp

### TBM5 and TBM5S\* crimp tools

- Wide range of #8 to 250 kcmil for copper and #10 to 4/0 for aluminum lugs and splices
- Also install C-taps from 54705 to 54750
- Shure Stake mechanism ensures a properly completed crimp each time (only in TBM5S)
- Include colour-coded, die-code-embossed installation dies

| Cat no.        | Colour code | Al  | Cu  | Die cat. no. | Pkg. qty. |
|----------------|-------------|-----|-----|--------------|-----------|
| TBM5 or TBM5S* | Red         | 10  | 8   | 13454        | 1         |
|                | Blue        | 8   | 6   | 13454        | 1         |
|                | Grey        | 6   | 4   | 13454        | 1         |
|                | Brown       | –   | 2   | 13454        | 1         |
|                | Green       | 4   | 1   | 13455        | 1         |
|                | Pink        | 2   | 1/0 | 13455        | 1         |
|                | Black       | –   | 2/0 | 13455        | 1         |
|                | Orange      | –   | 3/0 | 13455        | 1         |
|                | Purple      | –   | 4/0 | 13456        | 1         |
|                | Yellow      | –   | 250 | 13456        | 1         |
|                | Gold        | 1   | –   | 13457        | 1         |
|                | Tan         | 1/0 | –   | 13457        | 1         |
|                | Olive       | 2/0 | –   | 13457        | 1         |
|                | Ruby        | 3/0 | –   | 13457        | 1         |
|                | White       | 4/0 | –   | 13485        | 1         |

\* TBM5S includes shure steak mechanism; TBM5 does not.

### Carrying cases for TBM5 and TBM5S

| Cat no.    | Description                                           | Pkg. qty. |
|------------|-------------------------------------------------------|-----------|
| 295-31365M | Steel carrying case for TBM5, TBM5S, TBM6 and TBM6S   | 1         |
| 295-31365  | Plastic carrying case for TBM5, TBM5S, TBM6 and TBM6S | 1         |

## Manual compression tools



Creates diamond-style crimp

### TBM6 and TBM6S\* crimp tools

- Wide range of #8 thru 500 kcmil for copper lugs, splices and taps and #10 thru 350 kcmil for aluminum lugs and splices
- Also install 63105 through 63140 orange, green and blue H-Taps
- Shure Stake mechanism ensures a properly completed crimp each time (only in TBM6S)
- Complete with plastic carrying case and wire brush
- No dies included

| Cat no.        | Colour code | Al  | Cu  | Upper die cat. no. | Lower die cat. no. | Pkg. qty. |
|----------------|-------------|-----|-----|--------------------|--------------------|-----------|
| TBM6 or TBM6S* | Red         | 10  | 8   | 13475              | 13477              | 1         |
|                | Blue        | 8   | 6   | 13475              | 13477              | 1         |
|                | Grey        | 6   | 4   | 13472              | 13476              | 1         |
|                | Brown       | –   | 2   | 13474              | 13477              | 1         |
|                | Green       | 4   | 1   | 13474              | 13477              | 1         |
|                | Pink        | 2   | 1/0 | 13475              | 13477              | 1         |
|                | Black       | –   | 2/0 | 13474              | 13477              | 1         |
|                | Orange      | –   | 3/0 | 13474              | 13477              | 1         |
|                | Purple      | –   | 4/0 | 13475              | 13477              | 1         |
|                | Yellow      | –   | 250 | 13473              | 13476              | 1         |
|                | Gold        | 1   | –   | 13474              | 13477              | 1         |
|                | Tan         | 1/0 | –   | 13474              | 13477              | 1         |
|                | Olive       | 2/0 | –   | 13475              | 13477              | 1         |
|                | Ruby        | 3/0 | –   | 13473              | 13476              | 1         |
|                | White       | 4/0 | –   | 13473              | 13476              | 1         |
|                | Red         | 250 | 350 | 13472              | 13476              | 1         |
|                | Blue        | 300 | 400 | 13472              | 13476              | 1         |
|                | Brown       | –   | 500 | 13478              | 13478              | 1         |

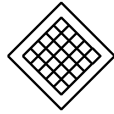
\* TBM6S includes shure steak mechanism; TBM6 does not.

### Carrying cases for TBM6 and TBM6S

| Cat no.    | Description                                           | Pkg. qty. |
|------------|-------------------------------------------------------|-----------|
| 295-31365M | Steel carrying case for TBM5, TBM5S, TBM6 and TBM6S   | 1         |
| 295-31365  | Plastic carrying case for TBM5, TBM5S, TBM6 and TBM6S | 1         |



## Manual compression tools



Creates diamond-style crimp

### TBM8 and TBM8S\* crimp tools

- Install coded copper lugs and connectors #8 through 500 kcmil
- Install aluminum lugs and connectors #10 through 350 kcmil
- Shure Stake mechanism ensures positive compression (only in TBM8S)
- Included dies are colour-coded and provide die-code embossing for easy installation and inspection
- Install all coded copper compression joints and a selection of small C-Taps
- Complete with installing dies and wire brush in plastic carrying case

| Cat no.        | Colour code | Al  | Cu  | Lower die cat. no. | Pkg. qty. |
|----------------|-------------|-----|-----|--------------------|-----------|
| TBM8 or TBM8S* | Red         | 10  | 8   | 13461              | 1         |
|                | Blue        | 8   | 6   | 13461              | 1         |
|                | Grey        | 6   | 4   | 13461              | 1         |
|                | Brown       | –   | 2   | 13461              | 1         |
|                | Green       | 4   | 1   | 13462              | 1         |
|                | Pink        | 2   | 1/0 | 13462              | 1         |
|                | Black       | –   | 2/0 | 13462              | 1         |
|                | Orange      | –   | 3/0 | 13462              | 1         |
|                | Purple      | –   | 4/0 | 13463              | 1         |
|                | Yellow      | –   | 250 | 13463              | 1         |
|                | Gold        | 1   | –   | 13464              | 1         |
|                | Tan         | 1/0 | –   | 13464              | 1         |
|                | Olive       | 2/0 | –   | 13464              | 1         |
|                | Ruby        | 3/0 | –   | 13464              | 1         |
|                | White       | 4/0 | 300 | 13465              | 1         |
|                | Red         | 250 | 350 | 13466              | 1         |
|                | Blue        | 300 | 400 | 13467              | 1         |
|                | Brown       | 350 | 500 | 13468              | 1         |

\* TBM8S includes shure steak mechanism; TBM8 does not.



### TBM840 crimp tool

- Wide range of #8 to 4/0 for copper connectors and splices
- Installs lugs and splices series 54000 and 58000
- 8-position colour-coded rotatable die
- Comfort hand grip
- Die index embossed for permanent inspectability
- Overall length: 23¾ in.
- Handle length: 16½ in.
- Weight: 8.8 lb

| Cat no. | Description                                                               | Pkg. qty. |
|---------|---------------------------------------------------------------------------|-----------|
| TBM840  | Crimp tool for #8 to 4/0 copper lugs with rotating colour-coded die wheel | 1         |

Manual compression tools



OD series manual compression tool

- Integral self-gauging system in tool head assures proper adjustment before each crimp
- Improved design reduces force to crimp by as much as 20%
- Teflon® over bronze bearings greatly reduces wear at linkage and pins; far superior to steel bearing surfaces

- All standard insert dies available for OD58 tool (“O” and “D”, 840, etc.), 5/8 in. fixed die in nose
- ODF tool has fixed “O” and “D” dies
- ODB tool has fixed “O” and “D” dies; accepts standard insert dies designed for MD6 tool
- Distribution of weight over tool length gives better balance, results in easier handling and positioning
- Optional fiberglass handles for greater strength, lighter weight, better insulating properties and lower moisture absorption rate
- ODF and ODB tools with insulated heads available as an option
- Lever action tool with hot stick handles of Glastrux Fiberglass, rated and tested for 100kV/ft./5 minutes
- Lever action results in minimum applied force to crimp

| Cat no. | Description                                                                                             | Weight (lb) |
|---------|---------------------------------------------------------------------------------------------------------|-------------|
| OD58    | Manual tool with 5/8 in. nose die and insert die cavity, straight wooden handles                        | 6.5         |
| OD581   | Manual tool with 5/8 in. nose die and insert die cavity, straight fiberglass handles                    | 6.0         |
| OD583   | Manual tool with 5/8 in. nose die and insert die cavity, curved wooden handles                          | 6.5         |
| ODF1    | Manual tool with fixed O & D dies, fiberglass handles                                                   | 6.0         |
| ODB     | Manual tool with fixed O & D dies, “D” die cavity accepts MD6 tool insert dies, straight wooden handles | –           |
| ODB1    | Manual tool with fixed O & D dies, “D” die cavity accepts MD6 tool insert dies, fiberglass handles      | 6.0         |
| ODB3    | Manual tool with fixed O & D dies, “D” die cavity accepts MD6 tool insert dies, curved wooden handles   | 6.5         |
| ODH1    | Insulating head cover                                                                                   | 0.40        |

For hand tool with insulated head, add suffix 5 to catalogue number; e.g. OD585. Refer to pp. 31–46 for dies.

Manual compression tools



**UT 3 M installation tool**  
Nothing to lose – a built-in 5/8 in. die is precision-cast and installs compression connectors from #8 to 4/0 AWG.

- One stroke of the tool develops full compression
- Ensures proper compression before jaws will release
- Only 2.2 lb

| Cat no. | Description                                        |
|---------|----------------------------------------------------|
| UT 3 M  | Installs compression connectors from #8 to 4/0 AWG |



**UT 3 installation tool and upper dies**  
Removable, reversible die installs 1/2 in. and 5/8 in. compression connectors.  
Perform additional installation work. UT3-4 G is a 1/2 in. and 5/8 in. gold upper die for ACSR and stranded wire. UT 3-4 R is a 1/2 in. and 5/8 in. red upper die for compressed and compact stranded wire

- One stroke of the tool develops full compression
- Only 2.2 lb

| Cat no.                  | Description                                                                        |
|--------------------------|------------------------------------------------------------------------------------|
| <b>Installation tool</b> |                                                                                    |
| UT 3                     | Installs compression connectors on ACSR, stranded, compressed and compact stranded |
| <b>Upper dies</b>        |                                                                                    |
| UT 3-4G                  | 1/2 in. and 5/8 in. gold upper die for ACSR and stranded                           |
| UT 3-4R                  | 1/2 in. and 5/8 in. red upper die for compressed and compact stranded              |

## Metric compression tools



### Specifications

- Wire range: 0.25–10 sq. mm
- Dimensions (L x W): 9.21 in. x 2.87 in.
- Weight: 1.15 lb

### TBM25MCC crimp tool

- For non-insulated metric connectors
- High-precision heat-treated steel jaws
- Ergonomically designed molded plastic grips
- Compact, lightweight and easy to use
- Toggle-action leverage reduces operator effort
- Shure Stake mechanism ensures a properly completed crimp each time
- Automatic handle opening after crimping operation

| Cat no.  | Description           | Pkg. qty. |
|----------|-----------------------|-----------|
| TBM25MCC | Mechanical crimp tool | 1         |



### Specifications

- Output force: 25.8 tons
- Operating pressure: 10,000 psi nominal
- Dimensions (L x W): 12.4 in. x 4.7 in.
- Weight: 11.4 lb

### TBM26MCC 26-ton hydraulic crimping head

- Installs crimp-type electrical connectors on cables up to 500 mm<sup>2</sup>
- Includes male automatic coupler for connection to 10,000 psi hydraulic pump
- Optional adaptor (TBM26M-ADP) available for use with semicircular slotted dies common to most C-shaped heads (12 ton) available on the market
- Sturdy steel carrying case complete with die compartment for holding up to 10 sets of dies available on request

| Cat no.    | Description                | Pkg. qty. |
|------------|----------------------------|-----------|
| TBM26MCC   | 26-ton hydraulic presshead | 1         |
| TBM26M-ADP | Adaptor                    | 1         |



### Specifications

- Output force: 58.4 tons
- Operating pressure: 10,000 psi nominal
- Dimensions (L x W): 12 in. x 7.9 in.
- Weight: 39.6 lb

### TBM60MCC 60-ton hydraulic crimping head

- Installs crimp-type electrical connectors on cables up to 1,000 mm<sup>2</sup>
- Includes male automatic coupler for connection to 10,000 psi hydraulic pump
- Optional adaptor (TBM60M-ADP) available for use with semicircular slotted dies common to most C-shaped heads (12 ton) available on the market
- Sturdy steel carrying case complete with die compartment for holding up to 10 sets of dies available on request

| Cat no.    | Description                | Pkg. qty. |
|------------|----------------------------|-----------|
| TBM60MCC   | 60-ton hydraulic presshead | 1         |
| TBM60M-ADP | Adaptor                    | 1         |

Tools with adaptors can be used with standard 12- and 15-ton half shelled dies.  
Please contact your regional sales office for information concerning metric dies.

## Power-assisted compression tools



### Li inline 6-ton closed crimp tool

- Designed with a rotating 180° head and integrated LED work lights, offering more maneuverability in tight spaces, while still providing 6 tons of parallel-action crimping force
- Designed for one-handed control ram advancement and retraction with a rapid advance feature that decreases crimp time
- Accepts W-style dies
- Works with MAKITA LXT 18 V lithium-ion batteries‡

**Approx. 350 crimps per full battery charge  
(based on 3/0 AWG cable)**

### Specifications

- Capacity: Cu #8–600 kcmil, Al #8–400 kcmil
- Output force: 6 tons
- Dimensions (L x W x H): 18 in. x 3.5 in. x 4.5 in.
- Battery: 14.4 V DC
- Weight with battery: 8.75 lb

| Cat no.    | Description                       | Pkg. qty. |
|------------|-----------------------------------|-----------|
| TBM62CR-LI | Li inline 6-ton closed crimp tool | 1         |

‡ ABB Installation Products Inc. and its related companies are not affiliated, associated, authorized, sponsored, endorsed by or in any way officially connected with Makita Corporation or any of its subsidiaries or its affiliates. MAKITA and LXT are trademarks of Makita Corporation



### Li inline 6-ton open OD crimp tool

- Designed with a rotating 180° jaws and integrated LED work lights, offering more maneuverability in tight spaces, while still providing 6 tons of scissor-action crimping force
- Designed for one-handed control ram advancement and retraction with a rapid advance feature that decreases crimp time
- Accepts W-style dies

**Approx. 350 crimps per full battery charge  
(based on 3/0 AWG cable)**

### Specifications

- Capacity: Cu #8–300 kcmil, Al #8–4/0 kcmil
- Output force: 6 tons
- Dimensions (L x W x H): 22 in. x 3.5 in. x 4.5 in.
- Battery: 14.4 V DC
- Weight with battery: 8.75 lb

| Cat no.    | Description                        | Pkg. qty. |
|------------|------------------------------------|-----------|
| TBM6UCR-LI | Li inline 6-ton open OD crimp tool | 1         |

Power-assisted compression tools



Li 6-ton open crimp tool

- Designed for one-handed control ram advancement and retraction
- Open yoke design with rotating head allows for maximum crimping flexibility
- Protective rubber insulated boot on head
- Rapid advance feature decreases crimp time
- Approx. 350 crimps per full battery charge (based on 3/0 AWG cable)

Specifications

- Capacity: Cu #8–600 kcmil, Al #8–400 kcmil
- Output force: 6 tons
- Dimensions (L x W x H): 13 in. x 2.5 in. x 12 in.
- Battery: 14.4 V DC
- Weight with battery: 8.75 lb

| Cat no.    | Description                                                                 | Pkg. qty. |
|------------|-----------------------------------------------------------------------------|-----------|
| TBM6PCR-LI | Li 6-ton open crimp tool equipped with lithium-ion (LI) battery technology. | 1         |



Li 6-ton closed crimp tool

- Designed for one-handed control ram advancement and retraction
- Rotating head allows maximum flexibility for crimping
- Rapid advance feature decreases crimp time
- Approx. 350 crimps per full battery charge (based on 3/0 AWG cable)

Specifications

- Capacity: Cu #8–600 kcmil, Al #10–400 kcmil
- Output force: 6 tons
- Dimensions (L x W x H): 13 in. x 2.5 in. x 12 in.
- Battery: 14.4 VDC
- Weight with battery: 8.5 lb

| Cat no.     | Description                | Pkg. qty. |
|-------------|----------------------------|-----------|
| TBM62PCR-LI | Li 6-ton closed crimp tool | 1         |

Power-assisted compression tools



TBM6H 6-ton hydraulic crimping head

- Lightweight design – weighs less than 7 lb, including dies
- Embosses die code on connection for easy inspection
- Uses 6-ton series and Blackburn® “O” and “D” series dies colour-coded for easy matching with Color-Keyed connectors (refer to pp. 31–46)

Specifications

- Installing range:
  - Up to 600 kcmil copper lugs and splices
  - Up to 400 kcmil aluminum lugs and splices
  - CHT814-10 to CHT214-9 copper H-taps
  - 63105 to 63148 aluminum H-taps
  - 54705 to 54750 C-taps
- Output force: 6 tons
- Dimensions (L x W x H): 12 in. x 2¼ in. x 3⅞ in.
- Weight: 6.5 lb

| Cat no. | Description                          | Pkg. qty. |
|---------|--------------------------------------|-----------|
| TBM6H   | 6-ton hydraulic head with steel case | 1         |



Li inline 6-ton open crimp tool

- Designed with rotating 180° jaws and integrated LED work lights, offering more maneuverability in tight spaces, while still providing 6 tons of scissor-action crimping force
- Designed for one-handed control ram advancement and retraction with a rapid advance feature that decreases crimp time
- Accepts W-style dies
- Approx. 500 crimps per full battery charge (based on 3/0 AWG cable)

Specifications

- Capacity: Cu #8–500 kcmil, Al #10–350 kcmil
- Output force: 6 tons
- Dimensions (L x W x H): 20 in. x 3.5 in. x 4.5 in.
- Battery: 14.4 V DC
- Weight with battery: 8.75 lb

| Cat no.      | Description                         | Pkg. qty. |
|--------------|-------------------------------------|-----------|
| TBM6UNICR-LI | Li inline 6-ton open die crimp tool | 1         |

Power-assisted compression tools



- TBM14RH 14-ton remote hydraulic head**
- Crimps connectors up to 900 kcmil copper and 750 kcmil aluminum
  - Wide, 1.65 in. jaw opening accommodates large connectors

- Quick automatic coupler enables fast connection to hydraulic systems
- Requires hydraulic pump with working pressure of 10,000 psi
- Provides 14 tons of crimping force
- Includes carrying case (dies sold separately)
- Use standard ABB Color-Keyed 15500 series dies (refer to pp. 31–46 )

- Specifications**
- Installing range:
    - Up to 900 kcmil copper lugs and splices
    - Up to 750 kcmil aluminum lugs and splices
    - 54755 to 54775 C-taps
  - Output force: 14 tons
  - Dimensions (L x W x H): 9½ in. x 3¾ in. x 4⅞ in.
  - Weight: 8.5 lb

| Cat no. | Description              | Pkg. qty. |
|---------|--------------------------|-----------|
| TBM14RH | 14-ton crimp remote head | 1         |



Creates hex-style crimp

- 13100A 14-ton hydraulic crimping head**
- Rugged design, made to last in field or on bench
  - C-yoke provides maximum flexibility for crimping
  - Uses standard ABB Color-Keyed 15500 series dies (refer to pp. 31–46 )
  - Operates on 10,000 psi hydraulic pumps

- Specifications**
- Installing range:
    - Up to 900 kcmil copper lugs and splices
    - Up to 750 kcmil aluminum lugs and splices
    - CHT814-10 to CHT2502-6 copper H-taps
    - 63105 to 63148 aluminum H-taps
    - 54755 to 54775 C-taps
  - Output force: 14 tons
  - Operating pressure: 10,000 psi nominal
  - Dimensions (L x W x H): 11½ in. x 2½ in. x 4¼ in.
  - Weight: 10 lb

| Cat no. | Description                           | Pkg. qty. |
|---------|---------------------------------------|-----------|
| 13100A  | 14-ton hydraulic head with steel case | 1         |



## Power-assisted compression tools



### Li 14-ton open crimp tool

- Rotating head allows maximum flexibility for crimping
- Protective rubber boot on "C" head
- Rapid advance feature decreases crimp time

- Approx. 150 crimps per full battery charge (based on 3/0 AWG cable)
- Works with MAKITA LXT 18 V lithium-ion batteries‡

#### Specifications

- Installing range:
  - Up to 900 kcmil copper lugs and splices
  - Up to 750 kcmil aluminum lugs and splices
- Capacity: Cu #8–900 kcmil, Al #10–750 kcmil
- Output force: 14 tons
- Dimensions (L x W x H): 19 in. x 3.5 in. x 10.5 in.
- Battery: 14.4 V DC
- Weight with battery: 20 lb

| Cat no.    | Description               | Pkg. qty. |
|------------|---------------------------|-----------|
| TBM14CR-LI | Li 14-ton open crimp tool | 1         |



### Battpac™ TBM15CR-LI hermetically sealed 15-ton battery-powered compression tool

- Rotating head allows maximum flexibility for crimping
- Protective rubber boot on head

- Rapid advance feature decreases crimp time
- Approx. 150 crimps per full battery charge (based on 3/0 AWG cable)
- Works with MAKITA LXT 18 V lithium-ion batteries‡

#### Specifications

- Installing range:
  - Up to 1500 kcmil copper lugs and splices
  - Up to 1250 kcmil aluminum lugs and splices
- Capacity: Cu #8–1,500 kcmil, Al #10–1,250 kcmil
- Output force: 14 tons
- Dimensions (L x W x H): 21.5 in. x 3.5 in. x 10.5 in.
- Battery: 14.4 V DC
- Weight with battery: 24 lb

| Cat no.    | Description                       | Pkg. qty. |
|------------|-----------------------------------|-----------|
| TBM15CR-LI | Li 15-ton closed crimp tool       | 1         |
| 15500-TB   | Die adaptor for 15500 series dies | 1         |

‡ ABB Installation Products Inc. and its related companies are not affiliated, associated, authorized, sponsored, endorsed by or in any way officially connected with Makita Corporation or any of its subsidiaries or its affiliates. MAKITA and LXT are trademarks of Makita Corporation

Power-assisted compression tools



Creates hex-style crimp

TBM15I 15-ton hydraulic crimping head

- Head made of forged steel and insulated with rubber boot
- Longer, slimmer design enables easier access into tight spaces, such as in cable tray and central office applications

- Wider jaw opening eases crimping of larger lugs, C-taps and H-taps
- Uses 15600 series dies; can also use 15500 series dies with 15500-TB adaptor (refer to pp. 31–46)

Specifications

- Installing range:
  - Up to 1,500 kcmil copper lugs and splices
  - Up to 1,000 kcmil aluminum lugs and splices
  - CHT814-10 to CHT750-350-1F copper H-taps
  - 63105 to 63180 aluminum H-taps
  - 54755 to 54790 C-taps
- Output force: 15 tons
- Operating Pressure: 10,000 psi nominal
- Dimensions (L x W x H): 15¾ in. x 2⅝ in. x 4⅜ in.
- Weight: 16.5 lb

| Cat no. | Description                                     | Pkg. qty. |
|---------|-------------------------------------------------|-----------|
| TBM15I  | Insulated 15-ton hydraulic head with steel case | 1         |

15600 series – Fits directly into tool for larger size connectors, 800 kcmil–1500 kcmil.  
15500 series – Used in conjunction with 15500-TB adaptor, #8 AWG–750 kcmil.



Creates hex-style crimp

21940 40-ton hydraulic crimping head

- Compact design delivers maximum pressure for larger lugs and splices
- Ideal for applications requiring larger lugs up to 2000 kcmil
- Uses 11300 and 11400 series dies (refer to pp. 31–46)

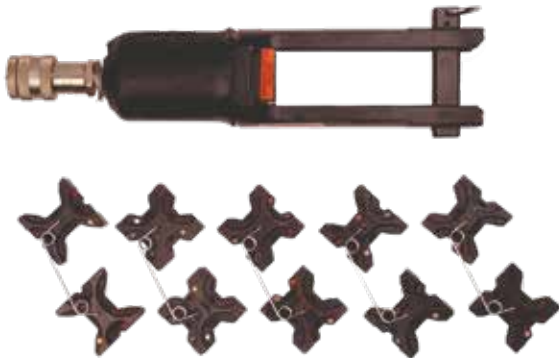
Specifications

- Installing range:
  - Up to 2,000 kcmil copper lugs and splices
  - Up to 2,000 kcmil aluminum lugs and splices
- Output force: 40 tons
- Operating pressure: 10,000 psi nominal
- Dimensions (L x W x H): 12 in. x 4¾ in. x 7⅞ in.
- Weight: 40 lb

| Cat no. | Description                                     | Pkg. qty. |
|---------|-------------------------------------------------|-----------|
| 21940   | 40-ton hydraulic press with steel carrying case | 1         |

Suggested replacement oil ABB cat. no. 21061 or any light weight hydraulic fluid or automatic transmission fluid is recommended.  
Do not use silicon-based fluids.

Power-assisted compression tools



Creates hex-style crimp

- TBM12 12-ton hydraulic crimp head**
- Rugged steel construction is durable for most applications
  - Includes five sets of multi-nested dies
  - Dies emboss die code on connectors for easy inspection
  - Closed yoke design yields maximum crimp performance
  - Uses TBM12D style dies (refer to pp. 31–46)

- Specifications**
- Installing range:
    - Up to 900 kcmil copper lugs and splices
    - Up to 750 kcmil aluminum lugs and splices
    - 54755 to 54775 C-taps
  - Output force: 12 tons
  - Operating pressure: 10,000 psi nominal
  - Dimensions (L x W x H): 14¼ in. x 2½ in. x 3⅞ in.
  - Weight: 9 lb

| Cat no. | Description                           | Pkg. qty. |
|---------|---------------------------------------|-----------|
| TBM12   | 12-ton hydraulic head with steel case | 1         |

If using old style 11700 series die set, use adaptor, cat. no. TBM12D-AR (not included) for adaptation to the above tool. Order adaptor separately.



Creates hex-style crimp

- 13642M 12-ton hydraulic crimping head**
- Rugged steel construction is durable for most applications
  - Used for Color-Keyed and Sta-Kon® connectors
  - The only military-listed hydraulic head (Mil. Spec. MS25441-1)
  - Uses 11700 series dies for Color-Keyed connectors (refer to pp. 31–46)

- Specifications**
- Installing range:
    - Up to 900 kcmil copper lugs and splices
    - Up to 750 kcmil aluminum lugs and splices
    - 54755 to 54775 C-taps
  - Output force: 12 tons
  - Operating pressure: 10,000 psi nominal
  - Dimensions (L x W x H): 14½ in. x 2½ in. x 3⅝ in.
  - Weight: 9 lb

| Cat no. | Description                           | Pkg. qty. |
|---------|---------------------------------------|-----------|
| 13642M  | 12-ton hydraulic head with steel case | 1         |

Manual and power-assisted compression tools

Smart™ Tool

- Automatically compresses to the correct depth based on size of connector in jaws
- C-type head swivels 90° for easy crimp positioning
- Forged steel construction is well suited for both field and bench work
- Installs both Color-Keyed and non-insulated Sta-Kon® connectors

How the Smart tool works

The Smart Tool was engineered with built-in intelligence\* that enables it to sense the connector barrel diameter and automatically apply just the right amount of compression force. This eliminates virtually all air spaces and forms the connector and conductor strands into a solid mass, resulting in a high-quality, low-resistance connection. In addition, the tool clearly embosses each compression for positive verification that the correct tool was used.

\* Novopress System

Uniform, dependable connections

The Smart Tool gives you consistent, high-quality compression connections over a wide range of connector sizes. Available in manual, battery-powered and air-operated versions, this tool easily installs lugs and splices from #8 AWG through 900 kcmil copper or 750 kcmil aluminum — without changing dies. For the specified wire range, all you need is one tool. You always have the right die size, eliminating die selection mistakes.

Lower installation costs

Productivity will be greatly improved with the Smart Tool, especially when installing a variety of connector sizes or types. Initial investment is low, requiring minimal tool inventory. These benefits add up to lower installed cost.

C-type yoke offers installation convenience

The C-type yoke configuration and large die spacing enable the Smart Tool to slip directly over the connector. This means added speed and convenience when installing two-way splice connectors, especially in confined spaces.

Smart™ tool range-taking features

The following size Color-Keyed lugs and splice connectors, when crimped with the Smart Tool, produce these range-taking capabilities:

| Copper (AWG or kcmil) |              | Aluminum (AWG or kcmil) |              |
|-----------------------|--------------|-------------------------|--------------|
| Standard wire size    | Range taking | Standard wire size      | Range taking |
| 1/0                   | #6–1/0       | 1/0                     | #6–1/0       |
| 2/0                   | #1–2/0       | 2/0                     | #1–2/0       |
| 4/0                   | #2–4/0       | 4/0                     | #2–4/0       |
| 300                   | #2/0–300     | 300                     | #2/0–300     |
| 350                   | 250–350      | 350                     | 250–350      |
| 500                   | 250–500      | 500                     | 4/0–500      |
| 750                   | 500–750      | 750                     | 500–750      |

Manual and power-assisted compression tools



**TBM8-750M-1 12-ton dieless manual hydraulic Smart™ Tool**

- Specifications**
- Installing range:
    - Up to 900 kcmil copper lugs and splices
    - Up to 750 kcmil aluminum lugs and splices
  - Output force: 12 tons
  - Dimensions (L x W): 21½ in. x 47⁄32 in.

| Cat no.     | Description                                      | Pkg. qty. |
|-------------|--------------------------------------------------|-----------|
| TBM8-750M-1 | 12-ton dieless manual hydraulic compression tool | 1         |



**Battpac™ LT TBM8-750BSCR 12-ton dieless battery-powered Smart™ Tool**

- Specifications**
- Installing range:
    - Up to 900 kcmil copper lugs and splices
    - Up to 750 kcmil aluminum lugs and splices
    - Min. of 40 crimps (4/0 AWG per battery charge)
  - Output force: 12 tons
  - Dimensions (L x W x H): 19½ in. x 37⁄8 in. x 8½ in.
  - Battery: Ni-MH 14.4 V 3.0 Ah
  - Weight with battery: 9 lb

| Cat no.      | Description                                                                                                       | Pkg. qty. |
|--------------|-------------------------------------------------------------------------------------------------------------------|-----------|
| TBM8-750BSCR | 12-ton dieless battery-powered compression tool<br>Includes carrying case, charger, two batteries and carry strap | 1         |

## Manual and power-assisted compression tools



Creates indent-style crimp

### TBM8-750 12-ton dieless Smart™ hydraulic head

#### Specifications

- Installing range:
  - Up to 900 kcmil copper lugs and splices
  - Up to 750 kcmil aluminum lugs and splices
- Output force: 12 tons
- Operating pressure: 10,000 psi nominal
- Dimensions (L x W x H): 14½ in. x 4⅞ in. x 2⅞ in.
- Weight: 9 lb

| Cat no.  | Description                               | Pkg. qty. |
|----------|-------------------------------------------|-----------|
| TBM8-750 | 12-ton dieless hydraulic compression head | 1         |

#### Options

| Cat no.       | Description                                             |
|---------------|---------------------------------------------------------|
| TBM8-750G     | Field compression gauging kit for above tools           |
| TBM8-750C20   | Die set installs cat. no. 54720 copper "C" taps         |
| TBM8-750C2530 | Die set installs cat. nos. 54735, 54730 copper "C" taps |
| TBM8-750C3540 | Die set installs cat. nos. 54735, 54740 copper "C" taps |
| TBM8-750C4550 | Die set installs cat. nos. 54735, 54750 copper "C" taps |

| Cat no.    | Description                                                              |
|------------|--------------------------------------------------------------------------|
| TBM8-750CL | Die set installs cat. nos. 54755 through 54775 copper "C" taps           |
| TBM8-750HG | Die set installs cat. nos. 63110 through 63118 and 63125 copper "H" taps |
| TBM8-750HB | Die set installs cat. nos. 63140 through 63148 copper "H" taps           |



Creates hex-style crimp



TBM15MG

### TBM14M 14-ton manual hydraulic crimp tool

- Features fiberglass handles for insulation and ease of use in tight spaces
- Two-stage pump provides rapid advance for fast installation
- Uses standard ABB Color-Keyed 15500 series dies (refer to pp. 31–46)

#### Specifications

- Installing range:
  - Up to 900 kcmil copper lugs and splices
  - Up to 750 kcmil aluminum lugs and splices
  - CHT814-10 to CHT2502-6 copper H-taps
  - 63105 to 63148 aluminum H-taps
  - 54755 to 54775 C-taps
- Output force: 14 tons
- Length: 24 in.
- Weight without dies: 15.4 lb

| Cat no. | Description                                  | Pkg. qty. |
|---------|----------------------------------------------|-----------|
| TBM14M  | 14-ton manual hydraulic crimp tool with case | 1         |
| TBM15MG | 15-ton force test gauge                      | 1         |

Manual and power-assisted compression tools



- Li inline 12-ton open crimp tool
- Designed for one-handed control ram advancement and retraction
  - Rotating head allows maximum flexibility for crimping and a protective rubber boot on “C” head
  - Rapid advance feature decreases crimp time
  - Approx. 150 crimps per full battery charge (based on 3/0 AWG cable)
  - Works with MAKITA LXT 18 V lithium-ion batteries‡

- Specifications
- Capacity: Cu #8–750 kcmil, Al #8–750 kcmil
  - Output force: 12-ton
  - Dimensions (L x W x H): 16.5 in. x 3.3 in. x 12.6 in.
  - Battery: 14.4 V DC
  - Weight with battery: 16.8 lb

| Cat no.     | Description                          | Pkg. qty. |
|-------------|--------------------------------------|-----------|
| TBM12PCR-LI | Li inline 12-ton open die crimp tool | 1         |

‡ ABB Installation Products Inc. and its related companies are not affiliated, associated, authorized, sponsored, endorsed by or in any way officially connected with Makita Corporation or any of its subsidiaries or its affiliates. MAKITA and LXT are trademarks of Makita Corporation

## Hydraulic pumps



### 13606 foot/hand-operated and 13604 hand-operated hydraulic pump

- 13606 operates with either foot or hand; 13604 is hand operated only
- Operate all ABB hydraulic heads
- Built-in safety bypass valve
- Factory set at 9,800 psi

#### Specifications

- Nominal pressure: 9,800 psi
- Pumping capacity: 2.6 cu. in./min. at 200 psi  
0.16 cu. in./min. at 10,000 psi
- Reservoir volume: 125 cu. in. (0.54 gal.)
- Max. handle force: 130 lb
- Dimensions (L x W x H): 23 in. x 5¾ in. x 6¾ in.
- Weight: 29 lb

| Cat no. | Description                                       | Pkg. qty. |
|---------|---------------------------------------------------|-----------|
| 13606   | Combination hand- or foot-operated hydraulic pump | 1         |
| 13604   | Hand-operated hydraulic pump                      | 1         |



### Battpac™ BPLT13970P2 pump

- Small and lightweight
- 60 minutes full recharge
- Highly visible display indicates battery power level
- Socket for 24 VDC external connection
- Operation in any position: on its side or upright
- Separate operation/release buttons protect against accidental operation
- Energy consumption limited by automatic shut-off
- Easily accessible oil top-up inlet

#### Specifications

- Nominal pressure: 10,000 psi
- Pumping capacity: 30 cu. in./min.
- Reservoir volume: 60 cu. in. (0.26 gal.)
- Dimensions (L x W x H): 13½ in. x 6½ in. x 12¾ in.
- Battery: Ni-MH 24 V, 3.0 Ah
- Weight with battery: 20.9 lb

#### Battery performance guide

In tests, the number of crimps obtained from a fully charged battery, using a remote crimping head, was:

- 102 crimps for Cu connectors on 250 kcmil Cu conductor
- 98 crimps for C-tap connectors on #2 AWG Cu conductor
- 76 crimps for Cu sleeve connectors on 500 kcmil Cu conductor

| Cat no.     | Description                                                                                                                                          | Pkg. qty. |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| BPLT13970P2 | Battpac pump includes canvas accessories carrying bag, carrying strap, remote hand controller, two batteries, battery charger and non-drip couplings | 1         |
| BPLT13970RB | Ni-MH 24 V replacement battery                                                                                                                       | 1         |
| BPLT13970RP | Canvas backpack for pump                                                                                                                             | 1         |
| BPLT13970DC | Power connecting cable with clips                                                                                                                    | 1         |
| BPLT13970FS | Remote foot pedal controller                                                                                                                         | 1         |

Suggested replacement oil ABB cat. no. 21061 or any light weight hydraulic fluid or automatic transmission fluid is recommended.  
Do not use silicon-based fluids.



## Hydraulic pumps



### 13600 electric hydraulic pump

- Designed for use with single-acting cylinders and tools rated for 10,000 psi operation
- Supplied with metal carrying case
- 13620 hand switch and 13619 hydraulic hose, both sold separately, required for operation

### Specifications

- Motor: ½ hp, 115 V 50–60 Hz 10 A
- Pumping capacity:
  - 170 cu. in./min. at 100 psi
  - 32 cu. in./min. at 1,000 psi
  - 25 cu. in./min. at 5,000 psi
  - 18 cu. in./min. at 10,000 psi
- Reservoir volume: 104 cu. in. (0.45 gal.)
- Basic pump dimension: (L x W x H)  
6 in. x 8 in. x 16 in.
- Weight: 25 lb
- Nominal pressure: 10,000 psi

| Cat no.            | Description                                                                                                 | Pkg. qty. |
|--------------------|-------------------------------------------------------------------------------------------------------------|-----------|
| 13600              | Electric hydraulic pump – hand or foot switch and nonmetallic hose (sold separately) required for operation | 1         |
| <b>Accessories</b> |                                                                                                             |           |
| 13620              | Hand switch – 10 ft.                                                                                        | 1         |
| 13589A             | Foot switch – 10 ft.                                                                                        | 1         |
| 13619              | 10 ft. nonmetallic hose                                                                                     | 1         |
| 13618              | 20 ft. nonmetallic hose                                                                                     | 1         |
| 13600S             | “Sled” type stand for 13600 pump                                                                            | 1         |

Suggested replacement oil ABB cat. no. 21061 or any light weight hydraulic fluid or automatic transmission fluid is recommended.  
Do not use silicon-based fluids.



### 13610A electric hydraulic pump with Shure Stake control

- Shure Stake control mechanism requires 9,800 psi pump pressure before recycling to prevent under-crimping
- Designed for use with single-acting cylinders and tools rated for 10,000 psi operation
- Supplied with metal carrying case

### Specifications

- Motor: ½ hp, 115 V 50–60 Hz 12.5 A
- Pumping capacity:
  - 170 cu. in./min. at 100 psi
  - 32 cu. in./min. at 1,000 psi
  - 25 cu. in./min. at 5,000 psi
  - 18 cu. in./min. at 10,000 psi
- Reservoir volume: 104 cu. in. (0.45 gal.)
- Basic pump dimension: (L x W x H)  
8½ in. x 10½ in. x 16 in.
- Weight: 35 lb
- Nominal pressure: 10,000 psi

| Cat no.            | Description                                                                                                                  | Pkg. qty. |
|--------------------|------------------------------------------------------------------------------------------------------------------------------|-----------|
| 13610A             | Electric hydraulic pump with Shure Stake – hand or foot switch and nonmetallic hose (sold separately) required for operation | 1         |
| <b>Accessories</b> |                                                                                                                              |           |
| 13611              | Hand switch – 10 ft.                                                                                                         | 1         |
| 13612              | Foot switch – 10 ft.                                                                                                         | 1         |
| 13619              | 10 ft. nonmetallic hose                                                                                                      | 1         |
| 13618              | 20 ft. nonmetallic hose                                                                                                      | 1         |

Suggested replacement oil ABB cat. no. 21061 or any light weight hydraulic fluid or automatic transmission fluid is recommended.  
Do not use silicon-based fluids.

## Hydraulic pumps



### 13810 heavy-duty electric hydraulic pump with Shure Stake control

- Designed for perfect crimps every time in heavy-duty OEM applications
- Heavy-duty OEM two-stage pump with high flow rate
- Shure Stake control mechanism requires 9,800 psi pump pressure before recycling to prevent under-crimping
- Requires hand or foot control (sold separately)

#### Specifications

- Motor rating: 1½ hp, 115 V, 60 Hz, 23 A
- Pumping capacity:
  - 235 cu. in./min. at 200 psi
  - 61 cu. in./min. at 8,000 psi
- Reservoir volume: 462 cu. in. (2 gal.)
- Dimensions (L x W x H): 10¾ in. x 15 in. x 20¾ in.
- Weight: 60 lb
- Nominal pressure: 10,000 psi

| Cat no.            | Description                                                                                                                                     | Pkg. qty. |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 13810              | Heavy-duty electric hydraulic pump with Shure Stake control — hand or foot switch and nonmetallic hose (sold separately) required for operation | 1         |
| <b>Accessories</b> |                                                                                                                                                 |           |
| 13611              | Hand switch – 10 ft.                                                                                                                            | 1         |
| 13612              | Foot switch – 10 ft.                                                                                                                            | 1         |
| 13619              | 10 ft. nonmetallic hose                                                                                                                         | 1         |
| 13618              | 20 ft. nonmetallic hose                                                                                                                         | 1         |
| 21061              | Hydraulic oil                                                                                                                                   | 1         |
| 13798              | Male pioneer quick disconnect coupler                                                                                                           | 1         |
| 13799              | Female pioneer quick disconnect coupler                                                                                                         | 1         |
| 13614              | Metallic reinforced hose for OEM operations – 10 ft.                                                                                            | 1         |

Suggested replacement oil ABB cat. no. 21061 or any light weight hydraulic fluid or automatic transmission fluid is recommended. Do not use silicon-based fluids.



Creates diamond-style crimp

### 25000 air-operated bench-mount crimp tool

- Installs copper and aluminum connectors on wire sizes from #8 AWG to 500 kcmil
- Compact, heavy-duty pneumatic air tool
- Simple to operate – just insert stripped wire into connector barrel, position it in crimping nest and depress foot pedal to actuate crimping dies
- Uses same crimping dies as TBM6S (13000 series) (see page 33)

| Cat no. | Description                         | Pkg. qty. |
|---------|-------------------------------------|-----------|
| 25000   | Air-operated bench-mount crimp tool | 1         |

Cable strippers, cutters and other tools



BCT840, BCT840S



TBM55V, TBM5V

Battery connector crimp tools

- Available with Shure Stake mechanism to ensure a complete crimp every time (BCT840S)
- Crimps casting and tubular battery connectors ranging from 4 AWG to 4/0 AWG
- Heavy-duty crimping tool including die for 8 AWG-4/0 battery connectors, lugs and splices
- The single die is an integral part of the tool; no dies to lose or misplace



BCS8-40 battery cable stripper

| Cat no. | Description                                                                               | Pkg. qty. |
|---------|-------------------------------------------------------------------------------------------|-----------|
| BCS8-40 | Cable stripper for 8 –4/0 AWG battery cable with replacement blade provided in the handle | 1         |



368-CK cable stripper

| Cat no. | Description                              | Pkg. qty. |
|---------|------------------------------------------|-----------|
| 368-CK  | Cable stripper for #1 AWG to 1,000 kcmil | 1         |



364RF/366RF cable cutters with fiberglass handles

| Cat no. | Description                                      | Pkg. qty. |
|---------|--------------------------------------------------|-----------|
| 364RF   | Cutter for up to 500 kcmil copper and aluminum   | 1         |
| 366RF   | Cutter for up to 1,000 kcmil copper and aluminum | 1         |

For copper and aluminum cable only. Not for steel.  
Contact Tool Service for replacement blades.

Cable strippers, cutters and other tools



TBM40HC hand-operated hydraulic cutting tool

- Specifically designed to cut copper, aluminum and telecommunications cables up to 3.35 in. O.D.
- Offers dual-speed action: fast advancing speed for rapid approach of blades to cable and slower, more powerful speed for cutting
- Blades manufactured from high-strength, heat-treated steel to ensure long service life
- Head easily opens to enable cutting of existing run cables
- Head rotates 180°, enabling operator to position for easiest use
- Automatic safety valve bypasses hydraulic system when reaching maximum pressure
- Pressure release device can also be activated during any point of operation

Specifications

- Max. cutting capacity: 3.35 in. O.D.
- Dimensions (L x W ): 25.69 in. x 6.89 in.
- Weight: 14.55 lb

| Cat no. | Description                          | Pkg. qty. |
|---------|--------------------------------------|-----------|
| TBM40HC | Hand-operated hydraulic cutting tool | 1         |

Contact Tool Service for replacement blades.



CSR750 cable cutter

- Special advance stroke mechanism requires less handle force
- Cuts copper or aluminum cables up to 750 kcmil
- Short handles (only 10 in. long) enable use in tight spaces

| Cat no. | Description                                   | Pkg. qty. |
|---------|-----------------------------------------------|-----------|
| CSR750  | Cutter for up to 750 kcmil copper or aluminum | 1         |

Contact Tool Service for replacement blades.

Cable strippers, cutters and other tools



- Li cutter for up to 1,500 kcmil Al**
- Designed for one-handed control of blade advancement and retraction
  - Cuts up to 1,000 kcmil copper and 1,500 kcmil (2½ in. O.D.) aluminum (not for use on ACSR)

- Specifications**
- Capacity: Cu 1,000 kcmil, Al 1,500 kcmil (ACSR – do not cut)
  - Dimensions (L x W x H): 16 in. x 4.5 in. x 5 in.
  - Battery: 14.4 VDC
  - Weight with battery: 5.8 lb

| Cat no.    | Description                                           |
|------------|-------------------------------------------------------|
| TBM54CT-LI | Li cutter for up to 1,000 kcmil Cu and 1,500 kcmil Al |



- Li cutter for 750 kcmil Cu, 636 kcmil ACSR**
- Designed for one-handed control of blade advancement and retraction
  - Cuts up to 750 kcmil copper, 2½ in. O.D. aluminum and 636 kcmil ACSR

- Specifications**
- Capacity: Cu 750 kcmil, Al 1,500 kcmil, ACSR 636 kcmil
  - Dimensions (L x W x H): 16 in. x 4.5 in. x 5 in.
  - Battery: 14.4 VDC
  - Weight with battery: 5.8 lb

| Cat no.     | Description                                |
|-------------|--------------------------------------------|
| TBM54CTS-LI | Li cutter for 750 kcmil Cu, 636 kcmil ACSR |

## Cable strippers, cutters and other tools



### Li cutter for steel, ACSR, Al, Cu

- Designed for one-handed control of blade advancement and retraction
- Rotating head to allow maximum flexibility for cutting

- Features a two-stage rapid advance ram for reduced cycles with overload bypass protection, which will pop off if the material is beyond the cutter's capacity
- Cuts up to 1½ in. O.D. copper, aluminum and ACSR cable
- Cuts rebar, ground rod up to ⅝ in. and wire rope up to ¾ in.
- 14.4 V DC

### Specifications

- Capacity: Wire rope ¾ in., rebar ⅝ in., ground rod ⅝ in. ACSR 1½ in., Cu/Al cable 1½ in.
- Dimensions (L x W x H): 17.5 in. x 2.5 in. x 13 in.
- Battery: 14.4 V DC
- Weight with battery: 14.6 lb

| Cat no.      | Description                       | Pkg. qty. |
|--------------|-----------------------------------|-----------|
| TBM58PCTS-LI | Li cutter for steel, ACSR, Al, Cu | 1         |



### 297-32136 hydraulic cutting head

- Heavy-duty cutter with high strength steel blades
- Cuts both aluminum and copper wire to 1½ O.D.
- Cutter supplied with carrying case

### Specifications

- Max. cutting capacity (aluminum and copper): 1½ in. O.D.
- Dimensions (L x W x H): 14½ in. x 2½ in. x 4 in.
- Weight: 8.5 lb

| Cat no.   | Description            | Pkg. qty. |
|-----------|------------------------|-----------|
| 297-32136 | Hydraulic cutting head | 1         |

Contact Tool Service for replacement blades.



### TBM40HCRH hydraulic cutting head

- Heat-treated, high-strength steel blades for clean cuts and long service life

- Quick automatic coupler speeds connection to hydraulic systems
- Cutter supplied with carrying case

### Specifications

- Max. cutting capacity (copper, aluminum and telecommunications cable): Up to 3.35 in. O.D.\*
- Hydraulic Operating Pressure: 10,000 psi (maximum)
- Dimensions (L x W): 15.94 in. x 5.63 in.
- Weight: 10.8 lb

\* Not designed for cutting steel-reinforced conductors

| Cat no.   | Description            | Pkg. qty. |
|-----------|------------------------|-----------|
| TBM40HCRH | Hydraulic cutting head | 1         |

Contact Tool Service for replacement blades.

## Installing dies



Insert dies for TBM6H hydraulic head and type OD tools

| Cat no. | Description or colour codes | Cat no. | Description or colour codes |
|---------|-----------------------------|---------|-----------------------------|
| OJB     | 0                           | BY37    | 840 (EEI 11A)               |
| DBL     | D                           | BY55    | Wire cutter (2/0 max.)      |
| BY39    | 510 Hex (non-bow)           | BY63    | Orange (Nicopress)          |
| BY41    | 635 Hex (non-bow)           | BY65    | Plum                        |
| BY43    | 747 Hex (non-bow)           | BY15C*  | 7/32 Red                    |
| BY45    | T                           | BY17C*  | 1/4 Blue                    |
| BY47    | K                           | BY19C*  | 5/16 Grey                   |
| BY49    | B                           | BY21C*  | 3/8 Brown                   |
| BY51    | J                           | BY23C*  | 1/2 Pink                    |
| BY53    | P                           | BY24C*  | 1/2-1 Gold                  |
| BY13    | 3/16                        | BY25C*  | 9/16 Tan/orange             |
| BY15*   | 7/32 (EEI-1 index 236)      | BY27C*  | 11/16 Yellow                |
| BY17    | 1/4                         | BY31C*  | 5/8-1 Olive/purple          |
| BY19    | 5/16 (index 161.242)        | BY32C*  | Ruby                        |
| BY21    | 3/8                         | BY35C*  | 781 White                   |
| BY23    | 1/2 (index 163)             | BY37C*  | 840 Red                     |
| BY25    | 9/16                        | BY28C*  | 17/32 Black                 |
| BY27    | 11/16                       | BY53C*  | P Green                     |
| BY29    | 19/32                       | BG-1-BB | Canvas bag for OD58         |
| BY31    | 5/8-1 (index 165)           | ODH1    | Insulating head cover       |
| BY33    | 737                         | -       | -                           |
| BY35    | 781                         | -       | -                           |

\*Can also be used with OD58 tool.



Insert dies for hydraulic heads\* – JB12B, 13100A, TBM14M, TBM14CR-LI, TBM14RH, TBM15I, TBM15CR-LI

| Cat no. | Description or colour codes | Cat no. | Description or colour codes |
|---------|-----------------------------|---------|-----------------------------|
| B58CS   | 5/8 Die set                 | B75AH   | -                           |
| HO      | "O" Die set                 | B76AH   | -                           |
| HD      | "D" Die set                 | B76SH   | -                           |
| HN      | "N" Die set                 | B06CHI  | Pink/gold #1/0 AWG Cu       |
| HU      | "U" Die set                 | B08CH   | Tan/orange #3/0 AWG Cu      |
| HBKC    | BKC                         | B09CH   | Olive/purple #4/0 AWG Cu    |
| HBKT    | BKT                         | B11CH   | Red/blue #350/400 kcmil Cu  |
| B24EA   | EEI 8A                      | B10SH   | -                           |
| B30EA   | EEI 9A                      | B05CH   | Green #1 AWG Cu             |
| B39EA   | EEI 10A                     | B26CH   | Ruby/yellow #250 kcmil Cu   |
| B49EA   | EEI 11A (840)               | B71CH   | Red #8 AWG Cu               |
| B61EA   | EEI 12A                     | B72CH   | Black #2/0 AWG Cu           |
| B80EA   | EEI 13A                     | B73CH   | Blue #6 AWG Cu              |
| B20AH   | EEI14A                      | B74CH   | Grey #4 AWG Cu              |
| B71AH   | -                           | B75CH   | Brown #2 AWG Cu             |
| B72AH   | -                           | B76CH   | Pink #500 kcmil Al          |
| B73AH   | -                           | B10CHI  | White #300 kcmil Cu         |
| B74AH   | -                           | B12CHI  | Brown #500 kcmil Cu         |

\*Adaptor 15500-TB required with ABB 15-ton tools.

### Cross-reference for 21940 (40-ton) tool dies

| Die designation | Die code  | ABB           | Burndy part no. |             |
|-----------------|-----------|---------------|-----------------|-------------|
|                 |           | cat. no.      | Copper          | Aluminum    |
| -               | 66        | 11409         | 30RT            | 28RT        |
| 840             | 71 / 76   | 11363 / 11410 | 31RT / 32RT     | 29RT / 30RT |
| 1               | 87        | 11423         | 34RT            | 31RT        |
| 1 1/8           | 94 / 99   | 11364 / 11424 | 36RT / 38RT     | 32RT / 34RT |
| -               | 106       | 74506         | 39RT            | 36RT        |
| 1 5/16          | 107 / 112 | 11425 / 11426 | 40 RT           | 40 RT       |
| 1 1/2           | 115 / 125 | 11308 / 11416 | 44 RT           | 39 ART      |
| 1 5/8           | 140       | 11418         | -               | 40RT        |
| 1 3/4           | 150 / 161 | 11419 / 11420 | 46RT            | 44RT        |
| -               | 175       | 11421         | -               | -           |

Installing dies

Dies for lugs and splices

| Connector size             |                |                      |            | TBM6H        |              | TBM6PCR-LI, TBM62PCR-LI, TBM62CR-LI, TBM6UNICR-LI |              |                       |                       | TBM15CR-LI/ TBM15I*** |              |
|----------------------------|----------------|----------------------|------------|--------------|--------------|---------------------------------------------------|--------------|-----------------------|-----------------------|-----------------------|--------------|
| Code copper (AWG or kcmil) | Flex/24        | Al/Cu (AWG or kcmil) | Color code | Die cat. no. | Die code no. | Die cat. no.                                      | Die code no. | Hex-Flex die cat. no. | Hex-Flex die code no. | Die cat. no.          | Die code no. |
| 8                          | 37/24          | #10                  | Red        | 6TON21SS     | 21           | 6TON21SS                                          | 21           | 6TON21XSS             | 21X                   | 15520SS               | 21           |
| 6                          | 61/24          | #8                   | Blue       | 6TON24SS     | 24           | 6TON24SS                                          | 24           | 6TON24XSS             | 24X                   | 15522SS               | 24           |
| 4                          | 91/24          | #6                   | Grey       | 6TON29SS     | 29           | 6TON29SS                                          | 29           | 6TON29XSS             | 29X                   | 15527SS               | 29           |
| 2                          | 125/24         | -                    | Brown      | 6TON33SS     | 33           | 6TON33SS                                          | 33           | 6TON33XSS             | 33X                   | 15528SS               | 33           |
| 1                          | 150/24         | #4                   | Green      | 6TON37SS     | 37           | 6TON37SS                                          | 37           | 6TON37XSS             | 37X                   | 15513SS               | 37           |
| 1/0                        | 225/24         | #2                   | Pink       | 6TON42SS     | 42           | 6TON42SS                                          | 42           | 6TON42XSS             | 42X                   | 15508SS               | 42           |
| 2/0                        | 275/24         | -                    | Black      | 6TON45SS     | 45           | 6TON45SS                                          | 45           | 6TON45XSS             | 45X                   | 15526SS               | 45           |
| 3/0                        | 325/24         | -                    | Orange     | 6TON50SS     | 50H          | 6TON50SS                                          | 50H          | 6TON50XSS             | 50X                   | 15530SS               | 50           |
| 4/0                        | 450/24         | -                    | Purple     | 6TON54SS     | 54H          | 6TON54SS                                          | 54H          | 6TON54XSS             | 54X                   | 15511SS               | 54           |
| 250                        | 550/24         | -                    | Yellow     | 6TON62SS     | 62H          | 6TON62SS                                          | 62H          | 6TON62XSS             | 62X                   | 15510SS               | 62           |
| -                          | -              | #1                   | Gold       | 6TON45SS     | 45           | 6TON45SS                                          | 45           | -                     | -                     | 15526SS               | 45           |
| -                          | -              | 1/0                  | Tan        | 6TON50SS     | 50H          | 6TON50SS                                          | 50H          | -                     | -                     | 15530SS               | 50           |
| -                          | -              | 2/0                  | Olive      | 6TON54SS     | 54H          | 6TON54SS                                          | 54H          | -                     | -                     | 15511SS               | 54           |
| -                          | -              | 3/0                  | Ruby       | 6TON60SS     | 60H          | 6TON60SS                                          | 60H          | -                     | -                     | 15532SS               | 60           |
| 300                        | -              | 4/0                  | White      | 6TON66SS     | 66H          | 6TON66SS                                          | 66H          | 6TON66X               | 66X                   | 15534SS               | 66           |
| 350                        | 775/24 (Short) | 250                  | Red        | 6TON71SS     | 71H          | 6TON71SS                                          | 71H          | -                     | -                     | 15514SS               | 71           |
| 400                        | 775/24 (Long)  | 300                  | Blue       | 6TON76SS     | 76H          | 6TON76SS                                          | 76H          | -                     | -                     | 15512SS               | 76           |
| -                          | 925/24*        | -                    | -          | 6TON80SS     | 80H          | 6TON80SS                                          | 80H          | -                     | -                     | 15517SS               | 80           |
| -                          | -              | -                    | -          | -            | -            | -                                                 | -            | -                     | -                     | 15606                 | 80           |
| 500                        | -              | 350                  | Brown      | 6TON87SS     | 87H          | 6TON87SS                                          | 87H          | -                     | -                     | 15506SS               | 87           |
| 600                        | 1100/24        | 400                  | Green      | 6TON94SS     | 94H          | 6TON94SS                                          | 94H          | -                     | -                     | 15536SS               | -            |
| -                          | 1325/24**      | -                    | Pink       | -            | -            | -                                                 | -            | -                     | -                     | -                     | -            |
| 700                        | -              | 500                  | Pink       | -            | 99H          | -                                                 | -            | -                     | -                     | 15505SS               | -            |
| 750                        | -              | 650                  | Black      | -            | 106H         | -                                                 | -            | -                     | -                     | 15515SS               | -            |
| 800                        | -              | -                    | Orange     | -            | 107H         | -                                                 | -            | -                     | -                     | 15540SS               | -            |
| -                          | -              | 700                  | Purple     | -            | 112H         | -                                                 | -            | -                     | -                     | -                     | -            |
| 900                        | 195/24         | 750                  | Yellow     | -            | 115H         | -                                                 | -            | -                     | -                     | 15504SS               | -            |
| 1000                       | -              | 800                  | -          | -            | -            | -                                                 | -            | -                     | -                     | -                     | -            |
| 1250                       | -              | 1000                 | -          | -            | -            | -                                                 | -            | -                     | -                     | -                     | -            |
| 1500                       | -              | -                    | -          | -            | -            | -                                                 | -            | -                     | -                     | -                     | -            |

\* Standard barrel only. Long barrel requires Brown 87H.  
\*\* Standard barrel only. Long barrel requires Black 106H.  
\*\*\* 15500 Series dies require 15500-TB adaptor. 15500F for full size die to fit TBM15I without adaptor.

Dies for standard lugs and splices (OD58)

| Connector size             |         |                      |                        |              | OD58         |  | Connector size             |         |                      |                        |              | OD58         |  |
|----------------------------|---------|----------------------|------------------------|--------------|--------------|--|----------------------------|---------|----------------------|------------------------|--------------|--------------|--|
| Code copper (AWG or kcmil) | Flex/24 | Al/Cu (AWG or kcmil) | Color-Keyed die colour | Die cat. no. | Die code no. |  | Code copper (AWG or kcmil) | Flex/24 | Al/Cu (AWG or kcmil) | Color-Keyed die colour | Die cat. no. | Die code no. |  |
| #8                         | 37/24   | #10                  | Red                    | BY15C        | 21           |  | 3/0                        | 325/24  | -                    | Orange                 | BY25C        | 50           |  |
| #6                         | 61/24   | #8                   | Blue                   | BY17C        | 24           |  | 4/0                        | 450/24  | -                    | Purple                 | BY27C        | 54           |  |
| #4                         | 91/24   | #6                   | Grey                   | BY19C        | 29           |  | 250                        | 550/24  | -                    | Yellow                 | BY31C        | 62           |  |
| #2                         | 125/24  | -                    | Brown                  | BY21C        | 33           |  | -                          | -       | #1                   | Gold                   | BY24C        | 45           |  |
| #1                         | 150/24  | #4                   | Green                  | BY53C        | 37           |  | -                          | -       | 1/0                  | Tan                    | BY25C        | 50           |  |
| 1/0                        | 225/24  | #2                   | Pink                   | BY23C        | 42           |  | -                          | -       | 2/0                  | Olive                  | BY31C        | 54           |  |
| 2/0                        | 275/24  | -                    | Black                  | BY28C        | 45           |  | -                          | -       | 3/0                  | Ruby                   | BY32C        | 60           |  |



Installing dies

Dies for lugs and splices

| TBM12PCR-LI        |                    | TBM14M, TB14MC,<br>13100A, JB12A,<br>TBM14CR-LI |                    | TBM15I***, TBM15CR-LI |                    |                      |                      |                             |                             |                                  |                                  |                    |                    | 21940 |  |
|--------------------|--------------------|-------------------------------------------------|--------------------|-----------------------|--------------------|----------------------|----------------------|-----------------------------|-----------------------------|----------------------------------|----------------------------------|--------------------|--------------------|-------|--|
| Die<br>cat.<br>no. | Die<br>code<br>no. | Die<br>cat.<br>no.                              | Die<br>code<br>no. | Die<br>cat.<br>no.    | Die<br>code<br>no. | Full die<br>cat. no. | Full die<br>code no. | Hex-Flex<br>die cat.<br>no. | Hex-Flex<br>die code<br>no. | Hex-Flex<br>full die<br>cat. no. | Hex-Flex<br>full die<br>code no. | Die<br>cat.<br>no. | Die<br>code<br>no. |       |  |
| 15520SS            | 21                 | 15520XSS                                        | 21X                | 15520SS               | 21                 | 15520F               | 21                   | 15520XSS                    | 21X                         | -                                | -                                | -                  | 21                 |       |  |
| 15522SS            | 24                 | 15522XSS                                        | 24X                | 15522SS               | 24                 | 15522F               | 24                   | 15522XSS                    | 24X                         | -                                | -                                | -                  | 24                 |       |  |
| 15527SS            | 29                 | 15527XSS                                        | 29X                | 15527SS               | 29                 | 15527F               | 29                   | 15527XSS                    | 29X                         | -                                | -                                | 11401              | 29                 |       |  |
| 15528SS            | 33                 | 15528XSS                                        | 33X                | 15528SS               | 33                 | 15528F               | 33                   | 15528XSS                    | 33X                         | -                                | -                                | 11402              | 33                 |       |  |
| 15513SS            | 37                 | 15513XSS                                        | 37X                | 15513SS               | 37                 | 15513F               | 37                   | 15513XSS                    | 37X                         | -                                | -                                | 11333              | 37                 |       |  |
| 15508SS            | 42                 | 15508XSS                                        | 42X                | 15508SS               | 42                 | 15508F               | 42                   | 15508XSS                    | 42X                         | -                                | -                                | 11334              | 42                 |       |  |
| 15526SS            | 45                 | 15526XSS                                        | 45X                | 15526SS               | 45                 | 15526F               | 45                   | 15526XSS                    | 45X                         | -                                | -                                | 11405              | 45                 |       |  |
| 15530SS            | 50                 | 15530XSS                                        | 50X                | 15530SS               | 50H                | 15530F               | 50H                  | 15530XSS                    | 50X                         | -                                | -                                | 11406              | 50                 |       |  |
| 15511SS            | 54                 | 15511XSS                                        | 54X                | 15511SS               | 54H                | 15511F               | 54H                  | 15511XSS                    | 54X                         | -                                | -                                | 11407              | 54                 |       |  |
| 15510SS            | 62                 | 15110XSS                                        | 62X                | 15510SS               | 62H                | 15110F               | 62H                  | 15510XSS                    | 62X                         | 15662X                           | 62X                              | 11340              | 62                 |       |  |
| 15526SS            | 45                 | -                                               | -                  | 15526SS               | 45                 | -                    | 45                   | -                           | -                           | -                                | -                                | 11405              | 45                 |       |  |
| 15530SS            | 50                 | -                                               | -                  | 15530SS               | 50H                | -                    | 50H                  | -                           | -                           | -                                | -                                | 11406              | 50                 |       |  |
| 15511SS            | 54                 | -                                               | -                  | 15511SS               | 54H                | -                    | 54H                  | -                           | -                           | -                                | -                                | 11407              | 54                 |       |  |
| 15532SS            | 60                 | -                                               | -                  | 15532SS               | 60H                | 15532F               | 60H                  | -                           | -                           | -                                | -                                | 11408              | 60                 |       |  |
| 15534SS            | 66                 | 15534XSS                                        | 66X                | 15534SS               | 66H                | 15534XSS             | 66H                  | 15534XSS                    | 66X                         | 15666X                           | 66X                              | 11409              | 66                 |       |  |
| 15514SS            | 71                 | 15514XSS                                        | 71X                | 15514SS               | 71H                | 15514XSS             | 71H                  | 15514XSS                    | 71X                         | 15671X                           | 71X                              | 11363              | 71                 |       |  |
| 15512SS            | 76                 | 15512XSS                                        | 76X                | 15512SS               | 76H                | 15512XSS             | 76H                  | 15512XSS                    | 76X                         | 15676X                           | 76X                              | 11410              | 76                 |       |  |
| 15517SS            | 80H                | 15517XSS                                        | 80X                | 15517SS               | 80H                | 15517XSS             | 80H                  | 15517XSS                    | 80X                         | 15606                            | 80X                              | 11423              | -                  |       |  |
| -                  | -                  | -                                               | -                  | -                     | -                  | -                    | -                    | -                           | -                           | -                                | -                                | -                  | -                  |       |  |
| 15506SS            | 87H                | 15506XSS                                        | 87X                | 15506SS               | 87H                | 15506XSS             | 87H                  | 15506XSS                    | 87X                         | 15687X                           | 87X                              | 11364              | 87                 |       |  |
| 15536SS            | 94H                | 15536XSS                                        | 84X                | 15536SS               | 94H                | 15536XSS             | 94H                  | 15536XSS                    | 94X                         | 15611X                           | 94X                              | -                  | 94                 |       |  |
| -                  | -                  | -                                               | -                  | -                     | -                  | -                    | -                    | -                           | -                           | -                                | -                                | -                  | -                  |       |  |
| 15505SS            | 99H                | -                                               | -                  | 15505SS               | 99H                | 15505F               | -                    | -                           | -                           | 15605X                           | 99X                              | 11424              | 99                 |       |  |
| 15515SS            | 106H               | -                                               | -                  | 15515SS               | 106H               | 15515F               | -                    | -                           | -                           | 15615X                           | 106X                             | 7450               | 106                |       |  |
| 15540SS            | 107H               | -                                               | -                  | -                     | -                  | 15609                | -                    | -                           | -                           | 15608X                           | 107X                             | 11425              | 107                |       |  |
| -                  | -                  | -                                               | -                  | -                     | -                  | 15504F               | -                    | -                           | -                           | -                                | -                                | 11426              | 112                |       |  |
| 15504SS            | 115H               | -                                               | -                  | 15504SS               | 115H               | -                    | -                    | -                           | -                           | 15604X                           | 115X                             | 11308              | 115                |       |  |
| -                  | -                  | -                                               | -                  | -                     | -                  | 15603                | -                    | -                           | -                           | -                                | -                                | 11416              | 125                |       |  |
| -                  | -                  | -                                               | -                  | -                     | -                  | 15602                | -                    | -                           | -                           | -                                | -                                | 11418              | 140                |       |  |
| -                  | -                  | -                                               | -                  | -                     | -                  | 15601                | -                    | -                           | -                           | -                                | -                                | 11419              | 150                |       |  |

Dies for C-taps

| Connector | Colour code | TBM45S      | TBM5/5S      | TBM6/6S      | TBM8/8S      | TBM62PCR-LI/TBM6H |              |
|-----------|-------------|-------------|--------------|--------------|--------------|-------------------|--------------|
|           |             | Nest colour | Die cat. no. | Die cat. no. | Die cat. no. | Die cat. no.      | Die cat. no. |
| 54705     | Red         | Red nest    | 13454        | 13475/13477  | 13461        | TBM6221           | 6TON21SS     |
| 54710     | Blue        | Blue nest   |              |              |              | TBM6224           | 6TON24SS     |
| 54715     | Grey        | Grey nest   |              | 13472/13476  |              | TBM6229           | 6TON29SS     |
| 54720     | Brown       | Brown nest  |              | 13474/13477  |              | TBM6233           | 6TON33SS     |
| 54725     | Green       | Green nest  | 13455        |              | 13462        | TBM6237           | 6TON37SS     |
| 54730     | Pink        | -           |              |              |              | TBM6242           | 6TON42SS     |
| 54735     | Black       |             |              |              |              | TBM6245           | 6TON45SS     |
| 54740     | Orange      |             |              |              |              | TBM6250           | 6TON50SS     |
| 54745     | Purple      |             | 13456        |              | 13563        | TBM6254           | 6TON54SS     |
| 54750     | Yellow      |             |              | 13473/13478  |              | TBM6262           | 6TON62SS     |

Installing dies

Dies for large C-taps

| Connector | Colour code | 13642M/13400 | TBM12        | 13100A/JB12B/TBM14M/<br>TBM14RH/TBM14CR-LI/TBM12CR-LI | TBM15I/TBM15CR-LI |
|-----------|-------------|--------------|--------------|-------------------------------------------------------|-------------------|
|           |             | Die cat. no. | Die cat. no. | Die cat. no.                                          | Die cat. no.      |
| 54755     | Blue        | 11744        | TBM12D-4     | 15512SS                                               | 15512SS           |
| 54760     | Brown       | 11746        | TBM12D-3     | 15506SS                                               | 15506SS           |
| 54765     | Pink        | 11748        | TBM12D-2     | 15505SS                                               | 15505SS           |
| 54770     | Black       | 11749        | TBM12D-2     | 15515SS                                               | 15515SS           |
| 54775     | Yellow      | 11753        | TBM12D-1     | 15504SS                                               | 15504SS           |
| 54780     | White       | -            | -            | -                                                     | 15603             |
| 54785     | -           | -            | -            | -                                                     | 15603             |
| 54790     | -           | -            | -            | -                                                     | 15603             |

Dies for aluminum H-taps

| Connector | Colour code | TBM5/5S      | TBM6/6S      | TBM8/8S      | TBM12        | TBM6H/<br>TBM6PCR-LI | 13100A/JB12B/TBM14M/<br>TBM14RH/TBM14CR-LI/TBM12CR-LI | TBM15I/<br>TBM15CR-LI |
|-----------|-------------|--------------|--------------|--------------|--------------|----------------------|-------------------------------------------------------|-----------------------|
|           |             | Die cat. no. | Die cat. no. | Die cat. no. | Die cat. no. | Die cat. no.         | Die cat. no.                                          | Die cat. no.          |
| 63105     | Orange      | 13455        | 13474/13477  | 13462        | TBM12D-4     | 6TON50               | 15530SS                                               | 15530SS               |
| 63110     | Green       | -            | 13470        | -            | TBM12D-H     | OJB                  | 15501A                                                | 15501A                |
| 63118     | Green       | -            | 13470        | -            | TBM12D-H     | OJB                  | 15501A                                                | 15501A                |
| 63125     | Green       | -            | 13470        | -            | TBM12D-H     | OJB                  | 15501A                                                | 15501A                |
| 63140     | Blue        | -            | 13471        | -            | TBM12D-H     | DBL                  | 15502                                                 | 15502                 |
| 63148     | Blue        | -            | 13471        | -            | TBM12D-H     | -                    | -                                                     | 15502                 |
| 63160     | Red         | -            | -            | -            | -            | -                    | -                                                     | 15612                 |
| 63169     | Black       | -            | -            | -            | -            | -                    | -                                                     | 15620                 |
| 63170     | Black       | -            | -            | -            | -            | -                    | -                                                     | 15620                 |
| 63180     | Black       | -            | -            | -            | -            | -                    | -                                                     | 15620                 |

Dies for copper H-taps

| Connector    | Colour code | TBM6H        | 13100A/JB12B/<br>TBM14M/<br>TBM14CR-LI/<br>TBM14RH/<br>TBM14CR-LI/<br>TBM12CR-LI | TBM15CR-LI/<br>TBM15I/<br>TBM15CR-LI |
|--------------|-------------|--------------|----------------------------------------------------------------------------------|--------------------------------------|
|              |             | Die cat. no. | Die cat. no.                                                                     | Die cat. no.                         |
| CHT814-10    | Green       | 6TON37R      | 15CA37RCH                                                                        | 15CA37RCH                            |
| CHT214-9     | Brown       | 6TON71R      | 15CA71RCH                                                                        | 15CA71RCH                            |
| CHT250214-8  | Purple      | -            | 15CA80RCH                                                                        | 15CA80RCH                            |
| CHT25014-7   | Purple      | -            | -                                                                                | -                                    |
| CHT2502-6    | Purple      | -            | -                                                                                | -                                    |
| CHT50010-5   | Brown       | -            | -                                                                                | 15612CH                              |
| CHT50040-4   | Brown       | -            | -                                                                                | -                                    |
| CHT75010-3   | Yellow      | -            | -                                                                                | 15620CH                              |
| CHT750350-2  | Yellow      | -            | -                                                                                | -                                    |
| CHT75040-11  | Yellow      | -            | -                                                                                | -                                    |
| CHT750350-1F | White       | -            | -                                                                                | 15620CHF                             |

Dies for medium-voltage connectors (15 kV applications)

| Die code no. | Copper conductor size (AWG or kcmil) | TBM12CR-LI, TBM15I, TBM14M, TBM14RH, TBM14CR-LI, TBM15CR-LI, 13100A, TBM12CR-LI, TBM14CR-LI, TBM15CR-LI | Adaptor** type | Non-adaptor type | Round gauging |
|--------------|--------------------------------------|---------------------------------------------------------------------------------------------------------|----------------|------------------|---------------|
|              |                                      |                                                                                                         |                |                  |               |
| 29R          | #4                                   | 15CA29R                                                                                                 | -              | -                | 0,302/0,290   |
| 33R          | #2                                   | 15CA33R                                                                                                 | -              | -                | 0,348/0,336   |
| 37R          | #1                                   | 15CA37R                                                                                                 | -              | -                | 0,394/0,382   |
| 42R          | 1/0                                  | 15CA42R                                                                                                 | -              | -                | 0,432/0,420   |
| 45R          | 2/0                                  | 15CA45R                                                                                                 | -              | -                | 0,472/0,460   |
| 49R          | 3/0                                  | 15CA49R                                                                                                 | -              | -                | 0,522/0,510   |
| 54R          | 4/0                                  | 15CA54R                                                                                                 | -              | -                | 0,576/0,564   |
| 60R          | 250                                  | 15CA60R                                                                                                 | -              | -                | 0,604/0,592   |
| 66R          | 300                                  | 15CA66R                                                                                                 | -              | -                | 0,680/0,668   |
| 71R          | 350                                  | 15CA71R                                                                                                 | -              | -                | 0,730/0,718   |
| 76R          | 400                                  | 15CA76R                                                                                                 | -              | -                | 0,790/0,778   |
| 87R          | 500                                  | 15CA87R                                                                                                 | -              | -                | 0,904/0,892   |
| 94R          | 600                                  | 15CA94R***                                                                                              | -              | -                | 0,958/0,946   |
| 106R         | 750                                  | 15CA106R***                                                                                             | -              | -                | 1,042/1,030   |
| 125R         | 1,000                                | -                                                                                                       | -              | 15C125R*         | 1,298/1,286   |

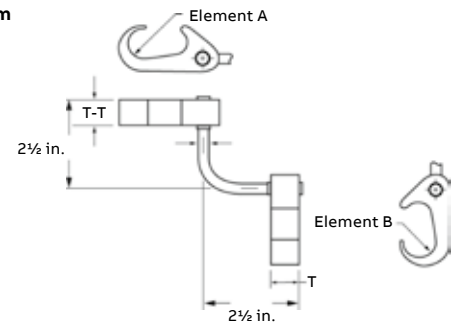
\*To be used with TBM15I or TBM15CR-LI tools.  
\*\*Use 15500-TB adaptor with TBM15I tool.  
\*\*\*Not UL Listed for use in TBM14M/13100A tools.

## Installing dies

### Dies for figure 6 to 6 ground connectors

| Connector | Cable<br>Element A<br>(AWG or kcmil) | To cable<br>Element B<br>(AWG or kcmil) | To ground rod<br>Element B | To rebar<br>Element B | Die selection |           |
|-----------|--------------------------------------|-----------------------------------------|----------------------------|-----------------------|---------------|-----------|
|           |                                      |                                         |                            |                       | Element A     | Element B |
| 54855L    | #6 Sol. – #2 Str.                    | #6 Sol. – #2 Str.                       | –                          | –                     | 15501A        | 15501A    |
| 54865L    | #1 Str. – 250                        | #6 Sol. – #2 Str.                       | ½ in. – ⅝ in.              | ⅜ in. – ½ in. #3 – #4 | 15G86R        | 15501A    |
| 54875L    | #2 Str. – 250                        | #2 Str. – 250                           | ½ in. – ⅝ in.              | ⅜ in. – ½ in. #3 – #4 | 15G86R        | 15G86R    |
| 54885L    | 250 – 500                            | #6 Sol. – #2 Str.                       | ⅝ in. – ¾ in.              | ⅝ in. – ¾ in. #3 – #4 | 15G126R       | 15501A    |
| 54895L    | 250 – 500                            | #2 Str. – 250                           | ⅝ in. – ¾ in.              | ⅝ in. – ¾ in. #3 – #4 | 15G126R       | 15G86R    |
| 54900L    | 250 – 500                            | #2 Str. – 250                           | ⅝ in. – ¾ in.              | ⅝ in. – ¾ in. #3 – #4 | 15G121R       | 15G121R   |

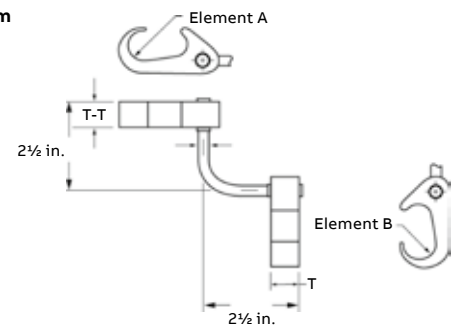
Diagram



### Dies for figure 6 to 6 ground connectors and cross reference

| Cat. no. | Dies for ABB         |             |                    |                  | Burndy tools and dies |           |           |           |
|----------|----------------------|-------------|--------------------|------------------|-----------------------|-----------|-----------|-----------|
|          | 14- and 15-ton tools |             |                    |                  |                       |           |           |           |
|          | Element A            | Element B   | A                  | B                | A                     | B         | A         | B         |
| 54900L   | 15G121R [3]          | 15G121R [3] | U1011 [3]          | U1011 [3]        | S1011 [3]             | S1011 [3] | P1011 [3] | P1011 [3] |
| 54895L   | 15G86R [1]           | 15G126R [1] | PU998 or PU998 [1] | U997 [1]         | S998 or PU998 [1]     | U997 [1]  | P998 [1]  | U997 [1]  |
| 54885L   | 15501A [1]           | 15G126R [1] | PU998 or PU998 [1] | U-0 or PU998 [1] | S998 [1]              | U-0 [1]   | P998 [1]  | U-0 [1]   |
| 54875L   | 15G86R [1]           | 15G86R [1]  | U997 [1]           | U997 [1]         | U997 [1]              | U997 [1]  | U997 [1]  | U997 [1]  |
| 54865L   | 15501A [1]           | 15G86R [1]  | U997 [1]           | U-0 [1]          | U997 [1]              | U-0 [1]   | U997 [1]  | U-0 [1]   |
| 54855L   | 15501A [1]           | 15501A [1]  | U-0 [1]            | U-0 [1]          | U-0 [1]               | U-0 [1]   | U-0 [1]   | U-0 [1]   |

Diagram



[\*] = Number of crimps

Use 15500-TB adaptor for ABB 15-ton tool.

## Installing dies

### Dies for figure 6 ground connectors and cross references

| Cat. no. | Dies for ABB           |           | Burndy tools and dies |                   |
|----------|------------------------|-----------|-----------------------|-------------------|
|          | 14- and 15-ton tools * | Y750 *    | Y45 *                 | Y46 *             |
| 54900    | 15G121R [3]            | U1011 [3] | S1011 [3]             | P1011 [3]         |
| 54895    | 15G126R [1]            | PU998 [1] | PU996 or S998 [1]     | PU996 or S998 [1] |
| 54890    | 15G126R [1]            | PU998 [1] | PU996 or S998 [1]     | PU996 or S998 [1] |
| 54885    | 15G126R [1]            | PU998 [1] | PU996 or S998 [1]     | PU996 or S998 [1] |
| 54875    | 15501A [1]             | UO [1]    | UO [1]                | UO [1]            |
| 54865CK  | 15G86R [1]             | 997 [1]   | U997 [1]              | U997 [1]          |
| 54860    | 15G86R [1]             | 997 [1]   | U997 [1]              | U997 [1]          |
| 54855    | 15G86R [1]             | 997 [1]   | U997 [1]              | U997 [1]          |

[\*] = Number of crimps

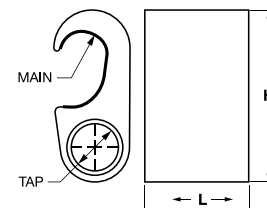
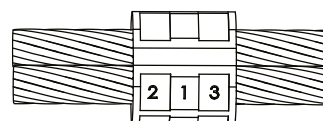
Use 15500-TB adaptor for ABB 15-ton tool.

| Cat. no.   | Application       |                     | Dies for ABB tools<br>(Figure 2) | L (in.) |
|------------|-------------------|---------------------|----------------------------------|---------|
|            | Main              | Tap (AWG or kcmil)  |                                  |         |
| 54865-CKN* | 5/8 in. rod       | 3/0 str. – 250      | 15506SS                          | 1½      |
| 54860N     | 5/8 in. rod       | 1/0 str. – 2/0 str. | 15506SS                          | 1½      |
| 54855N     | 5/8 in. rod       | #4 sol. – #2 str.   | 15506SS                          | 1½      |
| 54875N     | #6 sol. – #2 str. | #6 sol. – #2 str.   | 15517SS                          | 1½      |

#### Diagrams



Important: For 54865-CKN Only. To be in compliance with IEEE837-2014, the ground rod should be pre-crimped with die 15526SS (45H) as shown in Figure 1.



\* See Figure 1

All parts ending by the letter N are IEEE837-2014 compliant.

Use hydraulic tool 13100A, TBM14M TBM14CR-LI, TBM15CR-LI, TBM15, or TBM15I with die indicated in chart.

### Dies for figure 8 ground connectors and cross references

| Cat. no.          | Cable range<br>(AWG or kcmil) | Dies for ABB           |           | Burndy tools and dies               |                        |
|-------------------|-------------------------------|------------------------|-----------|-------------------------------------|------------------------|
|                   |                               | 14- and 15-ton tools * | Y750 *    | Y45 *                               | Y46 *                  |
| GR1-300500*       | 300–500                       | 15G121R [2]            | U1011 [2] | S1011 [2]                           | P1011 [2]              |
| GR34-300500 & TP* | 300–500                       | 15G121R [2]            | U1011 [2] | S1012 [2] or PU998 [1]              | P1011 [2] or PU998 [1] |
| GR58-30050 & TP   | 300–500                       | 15G121R [2]            | PU998 [1] | S1012 [2] or PU998 [1]              | P1011 [2] or PU998 [1] |
| GR1-40250*        | 4/0–250                       | 15G121R [2]            | U1011 [2] | S1011 [2]<br>S1012 [2] or PU998 [1] | P1011 [2] or PU998 [1] |
| GR34-40250 & TP*  | 4/0–250                       | 15G121R [2]            | PU998 [1] | S1012 [2] or PU998 [1]              | P1011 [2] or PU998 [1] |
| GR58-40250 & TP   | 4/0–250                       | 15G121R [2]            | PU998 [1] | S1012 [2] or PU998 [1]              | P1011 [2] or PU998 [1] |
| GR12-40250 & TP   | 4/0–250                       | 15G121R [2]            | PU998 [1] | S1012 [2] or PU998 [1]              | P1011 [2] or PU998 [1] |
| GR1-202*          | 2–2/0                         | 15G121R [2]            | U1011 [2] | S1011 [2]<br>S1012 [2] or PU998 [1] | P1011 [2] or PU998 [1] |
| GR34-202 & TP     | 2–2/0                         | 15G121R [2]            | PU998 [1] | S1012 [2] or PU998 [1]              | P1011 [2] or PU998 [1] |
| GR58-202 & TP     | 2–2/0                         | 15G121R [2]            | PU998 [1] | S1012 [2] or PU998 [1]              | P1011 [2] or PU998 [1] |
| GR12-202 & TP     | 2–2/0                         | 15G121R [2]            | PU998 [1] | S1012 [2] or PU998 [1]              | P1011 [2] or PU998 [1] |

[\*] = Number of crimps

Optional ground rod knurling die for TBM 14- and 15-ton tools: 15508

Use 15500-TB adaptor for ABB 15-Ton tool.

Optional ground rod knurling tool: 240-31565-94

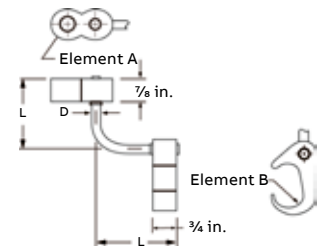
\*Use 15-ton tool only.

## Installing dies

Dies for figure 6 to 8 ground connectors and cross reference

| Cat. no.       | Dies for ABB         |             |                           |                           | Burdny tools and dies     |                           |                           |                           |
|----------------|----------------------|-------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                | 14- and 15-ton tools |             | Y750                      |                           | Y45                       |                           | Y46                       |                           |
|                | Element A *          | Element B * | A *                       | B *                       | A *                       | B *                       | A *                       | B *                       |
| 54920LR100     | 15G121R [2]          | 15G126R [1] | U1011 [2]<br>or PU998 [1] | U1011 [2]<br>or PU998 [1] | S1011 [2]<br>or PU998 [1] | U1011 [2]<br>or PU998 [1] | P1011 [2]<br>or PU998 [1] | U1011 [2]<br>or PU998 [1] |
| 54910LR100     | 15G121R [2]          | 15G86R [1]  | U1011 [2]<br>or PU998 [1] | U997 [1]                  | S1011 [2]<br>or PU998 [1] | U997 [1]                  | P1011 [2]<br>or PU998 [1] | U997 [1]                  |
| 54900L34 & TP  | 15G121R [2]          | 15G126R [1] | U1011 [2]<br>or PU998 [1] | U1011 [2]<br>or PU998 [1] | S1011 [2]<br>or PU998 [1] | U1011 [2]<br>or PU998 [1] | P1011 [2]<br>or PU998 [1] | U1011 [2]<br>or PU998 [1] |
| 54875L34 & TP  | 15G121R [2]          | 15G86R [1]  | U1011 [2]<br>or PU998 [1] | U997 [1]                  | S1011 [2]<br>or PU998 [1] | U997 [1]                  | P1011 [2]<br>or PU998 [1] | P998 or PU998 [1]         |
| 54895LR58 & TP | 15G121R [2]          | 15G126R [1] | U1011 [2]<br>or PU998 [1] | U1011 [2]<br>or PU998 [1] | S1011 [2]<br>or PU998 [1] | S998 or PU998 [1]         | P1011 [2]<br>or PU998 [1] | U997 [1]                  |
| 54865L58 & TP  | 15G121R [2]          | 15G86R [1]  | U1011 [2]<br>or PU998 [1] | U1011 [2]<br>or PU998 [1] | S1011 [2]<br>or PU998 [1] | U997 [1]                  | P1011 [2]<br>or PU998 [1] | P998 or PU998 [1]         |
| 54885LR12 & TP | 15G121R [2]          | 15R126R [1] | U1011 [2]<br>or PU998 [1] | U1011 [2]<br>or PU998 [1] | S1011 [2]<br>or PU998 [1] | S998 or PU998 [1]         | P1011 [2]<br>or PU998 [1] | P998 or PU998 [1]         |
| 54855LR12 & TP | 15G121R [2]          | 15G86R [0]  | U1011 [2]<br>or PU998 [1] | U1011 [2]<br>or PU998 [1] | S1011 [2]<br>or PU998 [1] | U997 [1]                  | P1011 [2]<br>or PU998 [1] | U997 [1]                  |

Diagram



[\*] = Number of crimps

Optional ground rod knurling die for TBM 14- and 15-ton tools: 15508. Use 15500-TB adaptor for ABB 15-ton tool. Optional ground rod knurling tool: 240-31565-94

\*Use 15-ton tool only.

| Cat. no.   | Ø A Cable<br>(AWG or kcmil) | Ø B Cable<br>(AWG or kcmil) | H (in.) | L (in.) | Crimps | Dies for tools |
|------------|-----------------------------|-----------------------------|---------|---------|--------|----------------|
| CTP250250N | 3/0 str. – 250              | 3/0 str. – 250              | 2 1/16  | 1 1/2   | 3      | 15506SS        |
| CTP25020N  | 3/0 str. – 250              | #1 str. – 2/0 str.          | 1 3/32  | 1 1/2   | 3      | 15506SS        |
| CTP2020N   | #1 str. – 2/0 str.          | #1 str. – 2/0 str.          | 1 9/16  | 1 1/2   | 3      | 15517SS        |
| CTP202N    | #1 str. – 2/0 str.          | #6 sol. – #2 str.           | 1 13/32 | 1 1/2   | 3      | 15517SS        |
| CTP22N     | #6 sol. – #2 str.           | #6 sol. – #2 str.           | 1 5/32  | 1 1/2   | 3      | 15514SS        |

Diagrams

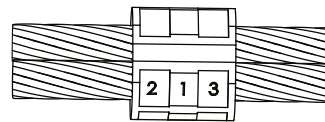
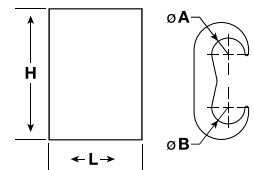


Figure 1 – Requires 3 crimps



All parts ending by the letter N are IEEE837-2014 compliant.

Use hydraulic tool 13100A, TBM14M TBM14CR-LI, TBM15CR-LI, TBM15, or TBM15I with die indicated in chart.

Must use TBM15, TBM15CR-LI, or TBM15I tool only. (See Figure 1)

### Dies for C-taps and cross references

| Cat. no.  | Dies for ABB           |           | Burdny tools and dies |           |  |
|-----------|------------------------|-----------|-----------------------|-----------|--|
|           | 14- and 15-ton tools * | Y750 *    | Y45 *                 | Y46 *     |  |
| CTP500500 | 15G121R [3]            | U1011 [3] | U1011 [3]             | U1011 [3] |  |
| CTP500250 | 15G121R [2]            | U1011 [2] | U1011 [2]             | U1011 [2] |  |
| CTP50020  |                        |           |                       |           |  |
| CTP250250 | 15G86R [1]             | U997 [1]  | U997 [1]              | U997 [1]  |  |
| CTP25020  |                        |           |                       |           |  |
| CTP2020   | 15501A [1]             | U-0 [1]   | U-0 [1]               | U-0 [1]   |  |
| CTP202    |                        |           |                       |           |  |
| CTP22**   | HBKC [1]               | U-C [1]   | U-C [1]               | U-C [1]   |  |

[\*] = Number of crimps

\*Cat. no. 15500-TB adaptor required if using ABB 15-ton tool with 155XX series dies.

\*\*#6 AWG branch must be doubled.

### Knurling die for 14- and 15-ton tools\*

Used to knurl ground rods in order to increase the pullout value of the compression connection by as much as 20%.



240-31565-94

| Cat no. | Description             |
|---------|-------------------------|
| 15508SS | For 3/4 in. ground rods |

\*Hand knurling tool for all ground rods

Installing dies

HEX-FLEX™ dies

| Dies for 14-ton tools:<br>TBM14CR-LI |          |                               |             |       |            |
|--------------------------------------|----------|-------------------------------|-------------|-------|------------|
| Cat no.                              | Code no. | Connector size (AWG or kcmil) |             |       | Die colour |
|                                      |          | Flex/24                       | Code copper | Al/Cu |            |
| 15520XSS                             | 21X      | 37/24                         | #8          | #10   | Red        |
| 15522XSS                             | 24X      | 61/24                         | #6          | #8    | Blue       |
| 15527XSS                             | 29X      | 91/24                         | #4          | #6    | Grey       |
| 15528XSS                             | 33X      | 125/24                        | #2          | –     | Brown      |
| 15513XSS                             | 37X      | 150/24                        | #1          | #4    | Green      |
| 15508XSS                             | 42X      | 225/24                        | 1/0         | #2    | Pink       |
| 15526XSS                             | 45X      | 275/24                        | 2/0         | –     | Black      |
| 15530XSS                             | 50X      | 325/24                        | 3/0         | –     | Orange     |
| 15511XSS                             | 54X      | 450/24                        | 4/0         | –     | Purple     |
| 15510XSS                             | 62X      | 550/24                        | 250         | –     | Yellow     |
| 15534XSS                             | 66X      | –                             | 300         | 4/0   | White      |
| 15514XSS                             | 71X      | 775/24<br>(short)             | 350         | 250   | Red        |
| 15512XSS                             | 76X      | 775/24<br>(long)              | 400         | 300   | Blue       |
| 15517XSS                             | 80X      | 925/24                        | –           | –     | –          |
| 15506XSS                             | 87X      | –                             | 500         | 350   | Brown      |
| 15536XSS                             | 94X      | 1,100/24                      | 600         | 400   | Green      |
| 15500XSS                             | Indentor | –                             | –           | –     | –          |

\* HEX-FLEX™ dies are sold individually, not in sets.  
Each die must be used in conjunction with indentor 15500XSS.

Aluminum H-tap dies

| Cat no. | Connector | Colour code |
|---------|-----------|-------------|
| 15530SS | 63105     | Orange      |
| 15501A  | 63110     | Green       |
| 15501A  | 63118     |             |
| 15501A  | 63125     |             |
| 15502   | 63140     | Blue        |
| 15502   | 63148     |             |

Copper H-tap dies

| Cat no.   | Connector   | Colour code |
|-----------|-------------|-------------|
| 15CA37RCH | CHT814-10   | Green       |
| 15CA71RCH | CHT214-9    | Brown       |
| 15CA80RCH | CHT250214-8 | Purple      |
| 15CA80RCH | CHT25014-7  |             |
| 15CA80RCH | CHT2502-6   |             |

Standard dies

| Dies for 14-ton tools:<br>TBM14CR-LI |          |                               |             |       |            |
|--------------------------------------|----------|-------------------------------|-------------|-------|------------|
| Cat no.                              | Code no. | Connector size (AWG or kcmil) |             |       | Die colour |
|                                      |          | Flex/24                       | Code copper | Al/Cu |            |
| 15520SS                              | 21       | 37/24                         | #8          | #10   | Red        |
| 15522SS                              | 24       | 61/24                         | #6          | #8    | Blue       |
| 15527SS                              | 29       | 91/24                         | #4          | #6    | Grey       |
| 15528SS                              | 33       | 125/24                        | #2          | –     | Brown      |
| 15513SS                              | 37       | 150/24                        | #1          | #4    | Green      |
| 15508SS                              | 42       | 225/24                        | 1/0         | #2    | Pink       |
| 15526SS                              | 45       | 275/24                        | 2/0         | –     | Black      |
| 15530SS                              | 50       | 325/24                        | 3/0         | –     | Orange     |
| 15511SS                              | 54       | 450/24                        | 4/0         | –     | Purple     |
| 15510SS                              | 62       | 550/24                        | 250         | –     | Yellow     |
| 15526SS                              | 45       | –                             | –           | #1    | Gold       |
| 15530SS                              | 50       | –                             | –           | 1/0   | Tan        |
| 15532SS                              | 60       | –                             | –           | 2/0   | Olive      |
| 15511SS                              | 54       | –                             | –           | 3/0   | Ruby       |
| 15534SS                              | 66H      | –                             | 300         | 4/0   | White      |
| 15514SS                              | 71H      | 775/24<br>(Short)             | 350         | 250   | Red        |
| 15512SS                              | 76H      | 775/24<br>(Long)              | 400         | 300   | Blue       |
| 15517SS                              | 80H      | 925/24                        | –           | –     | –          |
| 15506SS                              | 87H      | –                             | 500         | 350   | Brown      |
| 15536SS                              | 94H      | –                             | –           | –     | Green      |
| 15505SS                              | 99H      | 1,325/24                      | 700         | 500   | Pink       |
| 15515SS                              | 106H     | –                             | 750         | 650   | Black      |
| 15504SS                              | 115H     | 1,925/24                      | 900         | 750   | Yellow     |

Large C-tap dies

| Cat no. | Connector | Colour code |
|---------|-----------|-------------|
| 15512SS | 54755     | Blue        |
| 15506SS | 54760     | Brown       |
| 15505SS | 54765     | Pink        |
| 15515SS | 54770     | Black       |
| 15504SS | 54775     | Yellow      |

## Installing dies

### Tool die selection chart

This chart does not apply to catalogue series 61905-61975, 61102-61178, IBG2-10, IBG20-40, 63105-63180, 53000, 52000 and 15 kV copper and aluminum connectors.

For installation die information, see pages illustrating these connector series.

On some sizes, for special flexible strandings, consult your regional sales office.

All colour-coded die series require die adapter 15500TB for TBM15 tools only.



| Connector size (AWG or kcmil) |       | Die colour code |        |       |        |             | OD58         |              | JB12B |
|-------------------------------|-------|-----------------|--------|-------|--------|-------------|--------------|--------------|-------|
| Copper                        | Al/Cu |                 | TBM45S | TBM4S | TBM840 | TBM8-750/-1 | Die cat. no. | Die cat. no. |       |
| #8                            | #10   | Red             | ↕      | ↕     | ↕      | ↕           | BY15C        | B71CH        |       |
| #6                            | #8    | Blue            |        |       |        |             | BY17C        | B73CH        |       |
| #4                            | #6    | Grey            | ↕      | ↕     | ↕      | ↕           | BY19C        | B74CH        |       |
| #2                            | -     | Brown           |        |       |        |             | BY21C        | B75CH        |       |
| #1                            | #4    | Green           | -      | ↕     | ↕      | ↕           | BY53C        | B05CH        |       |
| 1/0                           | #2    | Pink            | -      |       |        |             | BY23C        | B06CH1       |       |
| 2/0                           | -     | Black           | -      | ↕     | ↕      | ↕           | BY28C        | B72CH        |       |
| 3/0                           | -     | Orange          | -      |       |        |             | BY25C        | B08CH        |       |
| 4/0                           | -     | Purple          | -      | ↕     | ↕      | ↕           | BY31C        | B09CH        |       |
| 250                           | -     | Yellow          | -      |       |        |             | -            | B26CH        |       |
| -                             | #1    | Gold            | -      | -     | -      | ↕           | -            | -            |       |
| -                             | 1/0   | Tan             | -      | -     | -      |             | -            | -            |       |
| -                             | 2/0   | Olive           | -      | -     | -      | ↕           | -            | B09CH        |       |
| -                             | 3/0   | Ruby            | -      | -     | -      |             | -            | -            |       |
| 300                           | 4/0   | White           | -      | -     | -      | ↕           | -            | B10CH1       |       |
| 350                           | 250   | Red             | -      | -     | -      |             | -            | B11CH        |       |
| 400                           | 300   | Blue            | -      | -     | -      | ↕           | -            | B11CH        |       |
| 925/24                        | -     | Black           | -      | -     | -      |             | -            | -            |       |
| 500                           | 350   | Brown           | -      | -     | -      | ↕           | -            | B12CH        |       |
| 600                           | 400   | Green           | -      | -     | -      |             | -            | B36CH        |       |
| -                             | -     | Green           | -      | -     | -      | ↕           | -            | -            |       |
| 700                           | 500   | Pink            | -      | -     | -      |             | -            | B76CH        |       |
| 750                           | 650   | Black           | -      | -     | -      | ↕           | -            | B39CH        |       |
| 800                           | -     | Orange          | -      | -     | -      |             | -            | -            |       |
| -                             | 700   | Purple          | -      | -     | -      | ↕           | -            | -            |       |
| 900                           | 750   | Yellow          | -      | -     | -      |             | -            | 6024 AH      |       |
| 1,000                         | 800   | -               | -      | -     | -      | ↕           | -            | -            |       |
| -                             | 1,000 | -               | -      | -     | -      |             | -            | 6030 H       |       |

## Installing dies

Tool die selection chart



| Connector size<br>(AWG or kcmil) |       | Die<br>colour<br>code | TBM6PCR-LI/TBM6H |              | TBM14CR-LI/14M/13100A |              | *TBM15CR-LI  |              | 21940 (40-ton) |              |
|----------------------------------|-------|-----------------------|------------------|--------------|-----------------------|--------------|--------------|--------------|----------------|--------------|
| Copper                           | Al/Cu |                       | Die cat. no.     | Die code no. | Die cat. no.          | Die code no. | Die cat. no. | Die code no. | Die cat. no.   | Die code no. |
| #8                               | #10   | Red                   | 6TON21SS         | 21           | B71CH                 | 21           | B71CH        | 21           | –              | 21           |
| #6                               | #8    | Blue                  | 6TON24SS         | 24           | B73CH                 | 24           | B73CH        | 24           | –              | 24           |
| #4                               | #6    | Grey                  | 6TON29SS         | 29           | B74CH                 | 29           | B74CH        | 29           | 11401          | 29           |
| #2                               | –     | Brown                 | 6TON33SS         | 33           | B75CH                 | 33           | B75CH        | 33           | 11402          | 33           |
| #1                               | #4    | Green                 | 6TON37SS         | 37           | B05CH                 | 37           | B05CH        | 37           | 11333          | 37           |
| 1/0                              | #2    | Pink                  | 6TON42SS         | 42           | B06CH                 | 42           | B06CH1       | 42           | 11334          | 42           |
| 2/0                              | –     | Black                 | 6TON45SS         | 45           | B72CH                 | 45           | B72CH        | 45           | 11405          | 45           |
| 3/0                              | –     | Orange                | 6TON50SS         | 50           | B08CH                 | 50           | B08CH        | 50           | 11406          | 50           |
| 4/0                              | –     | Purple                | 6TON54SS         | 54           | B09CH                 | 54           | B09CH        | 54H          | 11407          | 54H          |
| 250                              | –     | Yellow                | 6TON62SS         | 62           | B26CH                 | 62           | B26CH        | 62           | 11340          | 62           |
| –                                | #1    | Gold                  | 6TON45SS         | 45           | B72CH                 | 45           | B72CH        | 45           | 11405          | 45           |
| –                                | 1/0   | Tan                   | 6TON50SS         | 50           | B08CH                 | 50           | B08CH        | 50           | 11406          | 50           |
| –                                | 2/0   | Olive                 | 6TON54SS         | 54           | –                     | 54           | B09CH        | 54           | 11407          | 54           |
| –                                | 3/0   | Ruby                  | 6TON60SS         | 60           | –                     | 60           | –            | 60           | 11408          | 60           |
| 300                              | 4/0   | White                 | 6TON66SS         | 66H          | B10CH1                | 66H          | B10CH1       | 66H          | 11409          | 66           |
| 350                              | 250   | Red                   | 6TON71SS         | 71H          | B11CH                 | 71H          | B11CH        | 71H          | 11363          | 71           |
| 400                              | 300   | Blue                  | 6TON76SS         | 76H          | –                     | 76H          | B11CH        | 76H          | 11410          | 76           |
| 925/24                           | –     | Black                 | 6TON80SS         | 80H          | –                     | 80H          | –            | 80H          | –              | –            |
| –                                | –     | –                     | –                | –            | –                     | –            | –            | 80           | –              | –            |
| 500                              | 350   | Brown                 | 6TON87SS         | 87H          | B12CH                 | 87H          | B12CH        | 87H          | 11423          | 87           |
| 600                              | 400   | Green                 | 6TON94SS         | 94H          | –                     | –            | B36CH        | 94H          | 11364          | 94           |
| –                                | –     | –                     | –                | –            | –                     | –            | –            | –            | –              | –            |
| 700                              | 500   | Pink                  | –                | 99H          | –                     | –            | B76CH        | 99H          | 11424          | 99           |
| 750                              | 650   | Black                 | –                | 106H         | B39CH                 | –            | B39CH        | 106H         | 74506          | 106          |
| 800                              | –     | Orange                | –                | 107H         | –                     | –            | –            | 107H         | 11425          | 107          |
| –                                | 700   | Purple                | –                | 112H         | –                     | –            | –            | 112H         | 11426          | 112          |
| 900                              | 750   | Yellow                | –                | 115H         | –                     | –            | –            | 115H         | 11308          | 115          |
| 1,000                            | 800   | –                     | –                | –            | –                     | –            | –            | 125H         | 11416          | 125          |
| –                                | 1,000 | –                     | –                | –            | –                     | –            | –            | 140H         | 11418          | 140          |
| –                                | –     | –                     | –                | –            | –                     | –            | –            | 150H         | 11419          | 150          |

\*Colour-coded dies require 15500TB adapter when used with TBM15CR-LI tool.



## Installing dies

Tool and die index for copper compression connectors, short barrel — Types CTL, CTL-2 and CSP

| Standard copper<br>wire size<br>(AWG or kcmil) | Die colour<br>code | Blackburn tools |                |                   |                |                 |                | Burndy tools |                |                    |                | Anderson tools |                |             |                |            |                | ABB tools     |                               |                               |                          |
|------------------------------------------------|--------------------|-----------------|----------------|-------------------|----------------|-----------------|----------------|--------------|----------------|--------------------|----------------|----------------|----------------|-------------|----------------|------------|----------------|---------------|-------------------------------|-------------------------------|--------------------------|
|                                                |                    | Mech. OD58      | Crimps per end | Mech. HM-250 Tool | Crimps per end | Hyd. JB12B      | Crimps per end | Mech. MY29-3 | Crimps per end | Hyd. Y35, Y39, Y46 | Crimps per end | Mech. TBM55    | Crimps per end | Mech. TBM85 | Crimps per end | Hyd. TBM15 | Crimps per end | Cu wire range | Crimps per end<br>VC6†, VC6F† | Crimps per end<br>VC7†, VC7F† | Crimps per end<br>VC8C†† |
| #8                                             | Red                | 7/32            | 3              | **                | 1              | B71CH           | 1              | **           | 1              | –                  | –              | 13454          | 2              | 13461       | 2              | 21         | 2              | –             | –                             | –                             | –                        |
| #6                                             | Blue               | 1 1/4           | 3              | **                | 1              | B73CH           | 1              | **           | 1              | U5CRT              | 2              | 13454          | 2              | 13461       | 2              | 24         | 2              | –             | –                             | –                             | –                        |
| #4                                             | Grey               | 5/16            | 3              | **                | 1              | B74CH           | 1              | **           | 1              | U4CRT              | 2              | 13454          | 2              | 13461       | 2              | 29         | 2              | –             | –                             | –                             | –                        |
| #3                                             | White              | –               | –              | **                | 2              | –               | –              | **           | 2              | U3CRT              | 2              | –              | –              | –           | –              | –          | –              | –             | –                             | –                             | –                        |
| #2                                             | Brown              | 3/8             | 4              | **                | 2              | B75CH           | 1              | **           | 2              | U2CRT              | 2              | 13454          | 2              | 13461       | 2              | 33         | 2              | 6-2           | 1*                            | 2                             | –                        |
| #1                                             | Green              | P               | 4              | **                | 2              | B05CH           | 1              | **           | 2              | U1CRT              | 2              | 13455          | 3              | 13462       | 3              | 37         | 2              | 6-1           | 1                             | 2                             | –                        |
| 1/0                                            | Pink               | 1/2             | 4              | **                | 2              | B06CHI          | 2              | **           | 2              | U25RT              | 2              | 13455          | 3              | 13462       | 3              | 42H        | 3              | 6-1/0         | 1                             | 2                             | –                        |
| 2/0                                            | Black              | 17/32           | 4              | **                | 2              | B72CH           | 1              | **           | 2              | U26RT              | 2              | 13455          | 3              | 13462       | 3              | 45         | 2              | 4-2/0         | 1                             | 2                             | –                        |
| 3/0                                            | Orange             | 9/16            | 4              | **                | 2              | B08CH           | 1              | **           | 2              | U27RT              | 2              | 13455          | 4              | 13462       | 4              | 50         | 2              | 2-3/0         | 2                             | 2                             | –                        |
| 4/0                                            | Purple             | 5/8-1           | 4              | **                | 2              | B09CH           | 2              | **           | 2              | U28RT              | 2              | 13456          | 4              | 13463       | 4              | 54H        | 3              | 1-4/0         | 2                             | 2                             | –                        |
| 250                                            | Yellow             | 11/16           | 4              | **                | 2              | B26CH           | 2              | **           | 2              | U29RT              | 2              | 13456          | 4              | 13463       | 4              | 62         | 2              | 1/0-250†      | 2                             | 2                             | –                        |
| 300                                            | White              | –               | –              | –                 | –              | B10CHI<br>B10CH | 2              | –            | –              | U30RT              | 2              | –              | –              | 13465       | 4              | 66         | 2              | 2/0-300†      | 2                             | 2                             | –                        |
| 350                                            | Red                | –               | –              | –                 | –              | B11CH           | 2              | –            | –              | U31RT              | 2              | –              | –              | 13465       | 4              | 71H        | 3              | 3/0-350†      | 2                             | 3                             | –                        |
| 400                                            | Blue               | –               | –              | –                 | –              | B11CH           | 2              | –            | –              | U32RT              | 3              | –              | –              | 13467       | 4              | 76         | 2              | 4/0-400†      | 2                             | 3                             | –                        |
| 500                                            | Brown              | –               | –              | –                 | –              | B12CHI<br>B12CH | 2              | –            | –              | U34RT              | 3              | –              | –              | 13468       | 5              | 87H        | 3              | 4/0-500†      | 2                             | 3                             | –                        |
| 600                                            | Green              | –               | –              | –                 | –              | B36CH¹          | 3              | –            | –              | U36RT³             | 3              | –              | –              | –           | –              | 94H        | 3              | 250-600       | –                             | 3<br>VC7F†<br>only            | –                        |
| 750                                            | Black              | –               | –              | –                 | –              | B36CH¹          | 3<br>1         | –            | –              | U39RT³             | 3              | –              | –              | –           | –              | 106H       | 3              | 500-750       | –                             | 4<br>VC7F†<br>only            | 2                        |
| 1,000                                          | –                  | –               | –              | –                 | –              | –               | 1              | –            | –              | P44RT⁴             | 4              | –              | –              | –           | –              | 125H       | 4              | 750-1,000     | –                             | –                             | 2                        |

\* CSA Listed range 4-2 with YC6 and VC6FT.

\*\* Adjustable indent tool. No insert dies required.

<sup>1</sup> HCT7508-12, HCT1239, HCT7508H only.

<sup>3</sup> Y39, Y46 only.

<sup>4</sup> Y46 only.

<sup>†</sup> Users of VC6 and VC7 tools must strip off an extra 1½ in. of insulation from end of cable to permit removal of tool over conductor sizes 250 kcmil and larger on CSP connectors.

<sup>††</sup> Also use VC8 tool with aluminum nibs.

Installing dies

Tool and die index for copper compression connectors, long barrel — Types CTL-L, LCN and CU

| Standard copper wire size (AWG or kcmil) | Die colour code | Blackburn tools |                |                   |                |                    |                | Burndy tools |                |                    |                | Anderson tools |                |             |                |            |                | ABB tools            |                                                     |                                                     |                                   |
|------------------------------------------|-----------------|-----------------|----------------|-------------------|----------------|--------------------|----------------|--------------|----------------|--------------------|----------------|----------------|----------------|-------------|----------------|------------|----------------|----------------------|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------|
|                                          |                 | Mech. OD58      | Crimps per end | Mech. HM-250 Tool | Crimps per end | Hyd. JB12B         | Crimps per end | Mech. MY29-3 | Crimps per end | Hyd. Y35, Y39, Y46 | Crimps per end | Mech. TBM55    | Crimps per end | Mech. TBM8S | Crimps per end | Hyd. TBM15 | Crimps per end | Cu wire range        | Crimps per end VC6 <sup>†</sup> , VC6F <sup>†</sup> | Crimps per end VC7 <sup>†</sup> , VC7F <sup>†</sup> | Crimps per end VC8C <sup>††</sup> |
| #8                                       | Red             | 7/32            | 4              | **                | 2              | B71CH              | 2              | **           | 2              | —                  | —              | 13454          | 2              | 13461       | 2              | 21         | 3              | —                    | —                                                   | —                                                   | —                                 |
| #6                                       | Blue            | 1 1/4           | 4              | **                | 2              | B73CH              | 2              | **           | 2              | U5CRT              | 2              | 13454          | 2              | 13461       | 2              | 24         | 3              | —                    | —                                                   | —                                                   | —                                 |
| #4                                       | Grey            | 5/16            | 4              | **                | 2              | B74CH              | 2              | **           | 2              | U4CRT              | 2              | 13454          | 2              | 13461       | 2              | 29         | 3              | —                    | —                                                   | —                                                   | —                                 |
| #3                                       | White           | —               | —              | **                | 3              | —                  | —              | **           | 2              | U3CRT              | 2              | —              | —              | —           | —              | —          | —              | —                    | —                                                   | —                                                   | —                                 |
| #2                                       | Brown           | 3/8             | 5              | **                | 3              | B75CH              | 2              | **           | 3              | U2CRT              | 2              | 13454          | 2              | 13461       | 3              | 33         | 3              | 6-2                  | 2                                                   | 4                                                   | —                                 |
| #1                                       | Green           | P               | 5              | **                | 3              | B05CH              | 2              | **           | 3              | U1CRT              | 2              | 13455          | 4              | 13462       | 4              | 37         | 3              | 6-1                  | 2                                                   | 5                                                   | —                                 |
| 1/0                                      | Pink            | 1/2             | 5              | **                | 3              | B06CHI             | 2              | **           | 3              | U25RT              | 2              | 13455          | 4              | 13462       | 4              | 42H        | 4              | 6-1/0                | 2                                                   | 5                                                   | —                                 |
| 2/0                                      | Black           | 17/32           | 5              | **                | 3              | B72CH              | 2              | **           | 3              | U26RT              | 2              | 13455          | 4              | 13462       | 6              | 45         | 3              | 4-2/0                | 2                                                   | 5                                                   | —                                 |
| 3/0                                      | Orange          | 9/16            | 5              | **                | 4              | B08CH              | 2              | **           | 4              | U27RT              | 3              | 13455          | 6              | 13462       |                | 50         | 3              | 2-3/0                | 3                                                   | 6                                                   | —                                 |
| 4/0                                      | Purple          | 5/8-1           | 6              | **                | 4              | B09CH              | 3              | **           | 4              | U28RT              | 3              | 13456          |                | 13463       |                | 54H        | 5              | 1-4/0                | 3                                                   | 6                                                   | —                                 |
| 250                                      | Yellow          | 11/16           | 6              | **                | 4              | B26CH              | 3              | **           | 4              | U29RT              | 3              | 13456          |                | 13463       |                | 62         | 3              | 1/0-250 <sup>†</sup> | 3                                                   | 6                                                   | —                                 |
| 300                                      | White           | —               | —              | —                 | —              | B10CHI<br>B10CH    | 3              | —            | —              | U30RT              | 3              | —              | —              | 13465       |                | 66         | 3              | 2/0-300 <sup>†</sup> | 3                                                   | 6                                                   | —                                 |
| 350                                      | Red             | —               | —              | —                 | —              | B11CH              | 3              | —            | —              | U31RT              | 4              | —              | —              | 13465       |                | 71H        | 4              | 3/0-350 <sup>†</sup> | 3                                                   | 6                                                   | —                                 |
| 400                                      | Blue            | —               | —              | —                 | —              | B11CH              | 4              | —            | —              | U32RT              | 4              | —              | —              | 13467       |                | 76         | 3              | 4/0-400 <sup>†</sup> | 3                                                   | 6                                                   | —                                 |
| 500                                      | Brown           | —               | —              | —                 | —              | B12CHI<br>B12CH    | 4              | —            | —              | U34RT              | 5              | —              | —              | 13468       | 8              | 87H        | 4              | 4/0-500 <sup>†</sup> | 3                                                   | 6                                                   | 2 <sup>††</sup>                   |
| 600                                      | Green           | —               | —              | —                 | —              | B36CH <sup>1</sup> | 6              | —            | —              | U36RT <sup>3</sup> | 5              | —              | —              | —           | —              | 94H        | 4              | 250-600              | —                                                   | 8 VC7F <sup>†</sup> only                            | 3 <sup>†††</sup>                  |
| 750                                      | Black           | —               | —              | —                 | —              | B36CH <sup>1</sup> | 6<br>2         | —            | —              | U39RT <sup>3</sup> | 6              | —              | —              | —           | —              | 106H       | 6              | 500-750              | —                                                   | 9 VC7F <sup>†</sup> only                            | 4                                 |
| 1,000                                    | —               | —               | —              | —                 | —              | —                  | 2              | —            | —              | P44RT <sup>4</sup> | 6              | —              | —              | —           | —              | 125H       | 5              | 750-1,000            | —                                                   | —                                                   | 2                                 |

\*\* Adjustable indent tool. No insert dies required.

¹ HCT7508-12, HCT1239, HCT7508H only.

³ Y39, Y46 only.

⁴ Y46 only.

† Users of VC6 and VC7 tools must strip off an extra 1⁄8 in. of insulation from end of cable to permit removal of tool over conductor sizes 250 kcmil and larger on Cu connectors.

†† Also use VC8 tool with aluminum nibs.

††† VC8 tool crimps 500 kcmil only.

†††† VC8 tool crimps 500-600 kcmil only.

## Installing dies

Tool and die index for copper compression connectors for flexible rope stranded or flexible stranded tinned copper locomotive conductor welding cable and portable cord, short barrel — Types CTL, CTL-2 and CSP

| Conductor type     |                      |               |               |                                 |                 | Blackburn tools    |                |               |                | Burdndy tools      |                | ABB tools  |                | Anderson tools                     |                                                     |                                                     |                                  |
|--------------------|----------------------|---------------|---------------|---------------------------------|-----------------|--------------------|----------------|---------------|----------------|--------------------|----------------|------------|----------------|------------------------------------|-----------------------------------------------------|-----------------------------------------------------|----------------------------------|
| Flex standard size | Locomotive stranding | Welding cable | Portable cord | Stranded Cu size (AWG or kcmil) | Die colour code | Hyd. JB12B         | Crimps per end | Mech. MY29-11 | Crimps per end | Hyd. Y35, Y39, Y46 | Crimps per end | Hyd. TBM15 | Crimps per end | Cu wire range for locomotive cable | Crimps per end VC6 <sup>†</sup> , VC6F <sup>†</sup> | Crimps per end VC7 <sup>†</sup> , VC7F <sup>†</sup> | Crimps per end VC8 <sup>††</sup> |
| 6                  | 37/24                | –             | 8             | #8                              | Red             | B71CH              | 1              | **            | 1              | –                  | –              | 21         | 2              | –                                  | –                                                   | –                                                   | –                                |
| 6                  | 61/24                | 6             | 6             | #6                              | Blue            | B73CH              | 1              | **            | 1              | U5CD-1<br>Y34PR3   | 1              | 24         | 2              | –                                  | –                                                   | –                                                   | –                                |
| 5                  | 91/24                | –             | –             | #4                              | Grey            | B74CH              | 1              | **            | 1              | U4CD-1<br>Y34PR    | 1              | 29         | 2              | –                                  | –                                                   | –                                                   | –                                |
| 4                  | 105/24               | 4             | 4             | #3                              | White           | –                  | –              | **            | 2              | U3CD-1<br>Y34PR    | 1              | –          | –              | –                                  | –                                                   | –                                                   | –                                |
| 3                  | 125/24               | 3             | 3             | #2                              | Brown           | B75CH              | 1              | **            | 2              | U2CD-1<br>Y34PR    | 1              | 33         | 2              | 4-3                                | 1                                                   | 2                                                   | –                                |
| 2                  | 150/24               | 2             | 2             | #1                              | Green           | B05CH              | 1              | **            | 2              | U1CD-1<br>Y34PR    | 1              | 37         | 2              | 4-2                                | 1                                                   | 2                                                   | –                                |
| 1                  | 225/24               | 1             | 1             | 1/0                             | Pink            | B06CHI             | 2              | **            | 2              | U250-1<br>Y34PR    | 1              | 42H        | 3              | 4-1                                | 1                                                   | 2                                                   | –                                |
| 1/0                | 275/24               | 1/0           | 1/0           | 2/0                             | Black           | B72CH              | 1              | **            | 2              | U26CD-1<br>Y34PR   | 1              | 45         | 2              | 4-1/0                              | 1                                                   | 2                                                   | –                                |
| 2/0                | 325/24               | 2/0           | 2/0           | 3/0                             | Orange          | B08CH              | 1              | **            | 2              | U270-1<br>Y34PR    | 2              | 50         | 2              | 2-2/0                              | 2                                                   | 2                                                   | –                                |
| –                  | –                    | 3/0           | 3/0           | 4/0                             | Purple          | B09CH              | 2              | **            | 2              | U280-1<br>Y34PR    | 2              | 54H        | 3              | –                                  | –                                                   | –                                                   | –                                |
| 3/0                | 450/24               | 4/0           | –             | 250                             | Yellow          | B26CH              | 2              | **            | 2              | U290-1<br>Y34PR3   | 2              | 62         | 2              | 1/0-3/0 <sup>†</sup>               | 2                                                   | 2                                                   | –                                |
| 4/0                | 550/24               | –             | 4/0           | 300                             | White           | B12CHI<br>B12CH    | 2              | –             | –              | U300-1<br>Y34PR3   | 2              | 66         | 2              | 2/0-4/0 <sup>†</sup>               | 2                                                   | –                                                   | –                                |
| 263                | 650/24               | –             | –             | 300                             | Red             | B11CH              | 2              | –             | –              | U310-1<br>Y34PR3   | 2              | 71H        | 3              | 3/0-263 <sup>†</sup>               | 2                                                   | 3                                                   | –                                |
| 313                | 775/24               | –             | –             | 400                             | Blue            | B11CH              | 2              | –             | –              | Y320-1<br>Y34PRU3  | 2              | 76         | 2              | 4/0-313 <sup>†</sup>               | 2                                                   | 3                                                   | –                                |
| 373                | 925/24               | –             | –             | 500                             | Brown           | B10CHI<br>B10CH    | 2              | –             | –              | U340-1<br>Y34PR3   | –              | 87H        | 3              | 4/0-373 <sup>†</sup>               | 2                                                   | 3                                                   | 2 <sup>†††</sup>                 |
| 444                | 1100/24              | –             | –             | 600                             | Green           | B36CH              | 3              | –             | –              | C360<br>Y46PR4     | 2              | 94H        | 3              | 262-444                            | –                                                   | 3<br>VC7F <sup>†</sup><br>only                      | 2 <sup>†††</sup>                 |
| 535                | 1325/24              | –             | –             | 750                             | Black           | B39CH <sup>†</sup> | 1              | –             | –              | C390<br>Y46PR4     | 2              | 106H       | 3              | 373-535                            | –                                                   | 4<br>VC7F <sup>†</sup><br>only                      | 2                                |
| 646                | 1600/24              | –             | –             | –                               | –               | –                  | –              | –             | –              | –                  | –              | –          | –              | –                                  | –                                                   | –                                                   | –                                |
| 777                | 1925/24              | –             | –             | 1,000                           | –               | –                  | 1              | –             | –              | C440<br>Y46PR4     | 2              | 125H       | 4              | 535-777                            | –                                                   | –                                                   | 2                                |

\*\* Adjustable indent tool. No insert dies required.

<sup>†</sup> HCT7508-12, HCT1239, HCT7508H only.

<sup>‡</sup> Y39, Y46 only.

<sup>§</sup> Y46 only.

<sup>†</sup> Users of VC6 and VC7 tools must strip off an extra 1% in. of insulation from end of cable to permit removal of tool over conductor sizes 250 kcmil and larger on Cu connectors.

<sup>††</sup> Also use VC8 tool with aluminum nibs.

<sup>†††</sup> VC8 tool crimps 500 kcmil only.

<sup>††††</sup> VC8 tool crimps 500-600 kcmil only.

## Installing dies

Tool and die index for copper compression connectors, long barrel — Types CTL-L, LCN and CU

| Conductor type     |                      |               |               |                                 |                 | Blackburn tools |                |               | Burdndy tools  |                    |                | ABB tools  |                | Anderson tools                     |                            |                            |                       |
|--------------------|----------------------|---------------|---------------|---------------------------------|-----------------|-----------------|----------------|---------------|----------------|--------------------|----------------|------------|----------------|------------------------------------|----------------------------|----------------------------|-----------------------|
| Flex standard size | Locomotive stranding | Welding cable | Portable cord | Stranded Cu size (AWG or kcmil) | Die colour code | Hyd. JB12B      | Crimps per end | Mech. MY29-11 | Crimps per end | Hyd. Y35, Y39, Y46 | Crimps per end | Hyd. TBM15 | Crimps per end | Cu wire range for locomotive cable | Crimps per end VC6†, VC6F† | Crimps per end VC7†, VC7F† | Crimps per end VC8C†† |
| 8                  | 37/24                | –             | 8             | #8                              | Red             | B71CH           | 2              | **            | 2              | –                  | –              | 21         | 2              | –                                  | –                          | –                          | –                     |
| 6                  | 61/24                | 6             | 6             | #6                              | Blue            | B73CH           |                | **            | 2              | U5CD-1<br>Y34PR3   | 2              | 24         | 2              | –                                  | –                          | –                          | –                     |
| 5                  | 91/24                | –             | –             | #4                              | Grey            | B74CH           |                | **            | 2              | U4CD-1<br>Y34PR    | 2              | 29         | 2              | –                                  | –                          | –                          | –                     |
| 4                  | 105/24               | 4             | 4             | #3                              | White           | –               | –              | **            | 3              | U3CD-1<br>Y34PR    | 2              | –          | –              | –                                  | –                          | –                          | –                     |
| 3                  | 125/24               | 3             | 3             | #2                              | Brown           | B75CH           | 2              | **            | 3              | U2CD-1<br>Y34PR    | 2              | 33         | 2              | 4-3                                | 1                          | 2                          | –                     |
| 2                  | 150/24               | 2             | 2             | #1                              | Green           | B05CH           | 2              | **            | 3              | U1CD-1<br>Y34PR    | 2              | 37         | 2              | 4-2                                | 1                          | 2                          | –                     |
| 1                  | 225/24               | 1             | 1             | 1/0                             | Pink            | B06CHI          | 3              | **            | 3              | U250-1<br>Y34PR    | 2              | 42H        | 3              | 4-1                                | 1                          | 2                          | –                     |
| 1/0                | 275/24               | 1/0           | 1/0           | 2/0                             | Black           | B72CH           | 2              | **            | 3              | U26CD-1<br>Y34PR   | 2              | 45         | 2              | 4-1/0                              | 1                          | 2                          | –                     |
| 2/0                | 325/24               | 2/0           | 2/0           | 3/0                             | Orange          | B08CH           | 2              | **            | 4              | U270-1<br>Y34PR    | 2              | 50         | 2              | 2-2/0                              | 2                          | 2                          | –                     |
| –                  | –                    | 3/0           | 3/0           | 4/0                             | Purple          | B09CH           | 3              | **            | 4              | U280-1<br>Y34PR    | 3              | 54H        | 3              | –                                  | –                          | –                          | –                     |
| 3/0                | 450/24               | 4/0           | –             | 250                             | Yellow          | B26CH           | 3              | **            | 4              | U290-1<br>Y34PR3   | 3              | 62         | 2              | 1/0-3/0†                           | 2                          | 2                          | –                     |
| 4/0                | 550/24               | –             | 4/0           | 300                             | White           | B12CHI<br>B12CH | 3              | –             | –              | U300-1<br>Y34PR3   | 3              | 66         | 2              | 2/0-4/0†                           | 2                          | –                          | –                     |
| 263                | 650/24               | –             | –             | 300                             | Red             | B11CH           | 3              | –             | –              | U310-1<br>Y34PR3   | 3              | 71H        | 3              | 3/0-263†                           | 2                          | 3                          | –                     |
| 313                | 775/24               | –             | –             | 400                             | Blue            | B11CH           | 2              | –             | –              | Y320-1<br>Y34PRU3  | 3              | 76         | 2              | 4/0-313†                           | 2                          | 3                          | –                     |
| 373                | 925/24               | –             | –             | 500                             | Brown           | B10CHI<br>B10CH | 4              | –             | –              | U340-1<br>Y34PR3   | –              | 87H        | 3              | 4/0-373†                           | 2                          | 3                          | 2††                   |
| 444                | 1100/24              | –             | –             | 600                             | Green           | B36CH           | 6              | –             | –              | C360<br>Y46PR4     | 2              | 94H        | 3              | 262-444                            | –                          | 3<br>VC7F†<br>only         | 2††                   |
| 535                | 1325/24              | –             | –             | 750                             | Black           | B39CH†          | 2              | –             | –              | C390<br>Y46PR4     | 2              | 106H       | 3              | 373-535                            | –                          | 4<br>VC7F†<br>only         | 2                     |
| 646                | 1600/24              | –             | –             | –                               | –               | –               | –              | –             | –              | –                  | –              | –          | –              | –                                  | –                          | –                          | –                     |
| 777                | 1925/24              | –             | –             | 1,000                           | –               | –               | 2              | –             | –              | C440<br>Y46PR4     | 2              | 125H       | 4              | 535-777                            | –                          | –                          | 2                     |
| 1 111              | 2750/24              | –             | –             | 1,500                           | –               | –               | 2              | –             | –              | C460<br>Y46PR4     |                | –          | –              | –                                  | –                          | –                          | –                     |

\*\* Adjustable indent tool. No insert dies required.

† HCT7508-12, HCT1239, HCT7508H only.

‡ Y39 only.

§ Y48B only.

† Users of VC6 and VC7 tools must strip off an extra 1½ in. of insulation from end of cable to permit removal of tool over conductor sizes 250 kcmil and larger on Cu connectors.

†† Also use VC8 tool with aluminum nibs.

††† VC8 tool crimps 500 kcmil only.

## Installing dies

Tool and die index for copper compression connectors, one and two hole lugs, splices — Types ATL and ASP

| Stranded Al wire size (AWG or kcmil) | Stranded Cu wire size (AWG or kcmil) | Die colour code | Blackburn tools |                |                   |                |            |                | Burndy tools |                |               |                |             |                | ABB tools   |                |            |                | Anderson tools               |                            |                     |
|--------------------------------------|--------------------------------------|-----------------|-----------------|----------------|-------------------|----------------|------------|----------------|--------------|----------------|---------------|----------------|-------------|----------------|-------------|----------------|------------|----------------|------------------------------|----------------------------|---------------------|
|                                      |                                      |                 | Mech. OD58      | Crimps per end | Mech. HM-250 Tool | Crimps per end | Hyd. JB12B | Crimps per end | Mech. MY29-3 | Crimps per end | Hyd. Y35, Y39 | Crimps per end | Mech. TBM55 | Crimps per end | Mech. TBM85 | Crimps per end | Hyd. TBM15 | Crimps per end | Stranded Al or Cu wire range | Crimps per end VC6†, VC6F† | Crimps per end VC8C |
| #8                                   | #6                                   | Blue            | 1/4             | 2              | **                | 1              | B73CH      | -              | **           | 1              | U8CABT        | 1              | 13454       | 2              | 13461       | 2              | 24         | 2              | -                            | -                          | -                   |
| #6                                   | #4                                   | Grey            | 5/16            | 2              | **                | 1              | B74CH      | -              | **           | 1              | U6CABT        | 2              | 13454       | 2              | 13461       | 2              | 29         | 2              | -                            | -                          | -                   |
| #4                                   | #1                                   | Green           | P               | 3              | **                | 2              | B05CH      | -              | **           | 2              | U4CABT        | 2              | 13454       | 2              | 13462       | 2              | 37         | 2              | -                            | -                          | -                   |
| #3                                   | 1/0                                  | Pink            | 1/2             | 4              | **                | 2              | B06CHI     | 2              | **           | 2              | U2CABT        | 2              | 13455       | 3              | 13462       | 3              | 42H        | 3              | 6-2                          | 2                          | -                   |
| #2                                   | -                                    | Gold            | 1/2-1           | 3              | **                | 2              | B06CHI     | 2              | **           | 2              | U1CABT        | 2              | 13455       | 3              | 13464       | 3              | 45         | 2              | 4-1                          | 2                          | -                   |
| #1                                   | -                                    | Tan             | 9/16            | 4              | **                | 2              | B08CH      | 2              | **           | 2              | U25ART        | 2              | 13457       | 3              | 13464       | 3              | 50         | 2              | 6-1/0                        | 2                          | -                   |
| 1/0                                  | -                                    | Olive           | 5/8-1           | 4              | **                | 2              | B09CH      | 2              | **           | 2              | U26ART        | 2              | 13457       | 3              | 13464       | 3              | 54H        | 3              | 4-2/0                        | 2                          | -                   |
| 2/0                                  | -                                    | Ruby            | 688             | 5              | **                | 2              | B26CH      | 2              | **           | 2              | U27ART        | 2              | 13457       | 3              | 13464       | 3              | 60         | 2              | 4-3/0                        | 2                          | -                   |
| 3/0                                  | -                                    | White           | 781             | 5              | **                | 2              | B10CHI     | 2              | **           | 2              | U28ART        | 2              | 13457       | 3              | 13465       | 4              | 66         | 3              | 2-4/0                        | 2                          | -                   |
| 4/0                                  | 300                                  | Red             | 781             | 5              | **                | -              | B11CH      | 3              | **           | 2              | U29ART        | 2              | 13473       | 4              | 13466       | 5              | 71H        | 4              | 1/0-250†                     | 2                          | -                   |
| 250                                  | 350                                  | Blue            | 840             | -              | -                 | -              | B11CH      | 3              | **           | 2              | U30ART        | 2              | -           | -              | -           | -              | 76         | 2              | 1/0-300†                     | -                          | -                   |
| 300                                  | 400                                  | Brown           | -               | -              | -                 | -              | B12CHI     | 4              | -            | -              | U31ART        | 2              | -           | -              | 13468       | 7              | 87H        | 4              | 2/0-350†                     | 2                          | -                   |
| 350                                  | 500                                  | Green           | -               | -              | -                 | -              | B36CH      | 6              | -            | -              | U32ART        | 4              | -           | -              | -           | -              | 94         | 2              | 3/0-400†                     | 2                          | -                   |
| 400                                  | 600                                  | Pink            | -               | -              | -                 | -              | B76CH      | 4              | -            | -              | U34ART        | 4              | -           | -              | -           | -              | 99H        | 4              | 4/0-500†                     | 2                          | -                   |
| 500                                  | 700                                  | Black           | -               | -              | -                 | -              | B39CH      | 2              | -            | -              | U36ART        | 4              | -           | -              | -           | -              | 106        | 2              | 350-600 Al<br>350-600 Cu     | 3††                        | -                   |
| 600                                  | -                                    | -               | -               | -              | -                 | -              | -          | -              | -            | -              | -             | -              | -           | -              | -           | -              | -          | -              | -                            | -                          | -                   |
| 750                                  | -                                    | -               | -               | -              | -                 | -              | 6024AH1    | 1              | U39RT22      | 4              | U39ART-23     | -              | -           | -              | -           | -              | 125H       | 5              | 500-750 Al<br>600 Cu         | 2†††                       | -                   |
| 1,000                                | -                                    | -               | -               | -              | -                 | -              | 6030AH1    | 2              | P44ART2      | 3              | -             | -              | -           | -              | -           | -              | 150H       | 5              | 750-1,000 Al                 | -                          | 2†††                |

\*\* Adjustable indent tool. No insert dies required.

† HCT7508-12, HCT1239, HCT7508H only.

‡ Y46 only.

³ Y39 only.

† Users of VC6 and VC7 tools must strip off an extra 1% in. of insulation from end of cable to permit removal of tool over conductor sizes 250 kcmil and larger on ASP connectors.

†† VC6FT tool only.

††† With Al nibs for VC8C.

## Installing dies

### Gauging information for standard hex dies

| Die code | Blackburn and ABB 12, 14- and 15-ton tools colour coded dies | 21940 dies | Hex gauging |
|----------|--------------------------------------------------------------|------------|-------------|
| Red      | 6 ton 21                                                     | B71CH      | –           |
| Blue     | 6 ton 24                                                     | B73CH      | –           |
| 27       | –                                                            | –          | 11330       |
| Grey     | 6 ton 29                                                     | B74CH      | 11404       |
| 32       | –                                                            | –          | 11332       |
| Brown    | 6 ton 33                                                     | B75CH      | 11402       |
| 35       | –                                                            | –          | *11403      |
| Green    | 6 ton 37                                                     | B05CH      | 11333       |
| 40       | –                                                            | –          | *11404      |
| 42       | –                                                            | 15505F     | 11334       |
| Pink     | 6 ton 42                                                     | B06CHI     | –           |
| Black    | 6 ton 45                                                     | B08CH      | 11405       |
| Orange   | 6 ton 50                                                     | B09CH      | 11406       |
| Olive    | –                                                            | B09CH      | 11407       |
| Purple   | 6 ton 54                                                     | B09CH      | –           |
| 57       | –                                                            | –          | –           |
| 58       | –                                                            | –          | 11338       |
| 60       | 6 ton 60                                                     | –          | 11408       |
| Yellow   | 6 ton 62                                                     | B06CH      | 11340       |
| White    | 6 ton 66                                                     | B10CHI     | 11409       |
| 66H      | –                                                            | –          | –           |
| Red      | –                                                            | B11CH      | 11363       |
| Red      | 6 ton 71                                                     | B11CH      | –           |
| Blue     | 6 ton 76                                                     | B11CH      | 11410       |
| 76H      | –                                                            | –          | –           |
| 78       | –                                                            | –          | 11306       |
| 80       | 6 ton 80                                                     | –          | 11411       |
|          |                                                              | 15517      | –           |
| 83       | –                                                            | –          | *11370      |

\* Obsolete, consult your Regional Sales Office for availability.  
Gauges may be ordered from ABBB Tool Service.

| Die code | Blackburn and ABB 14- and 15-ton tool dies | 21940 dies | Hex gauging |
|----------|--------------------------------------------|------------|-------------|
| 87       | –                                          | –          | 11423       |
| Brown    | 6 ton 87                                   | B12CH      | –           |
| 94       | –                                          | –          | 11364       |
| 94H      | –                                          | –          | –           |
| 96       | –                                          | –          | 11304       |
| 96H      | –                                          | –          | –           |
| 99       | –                                          | –          | 11424       |
| 99H      | –                                          | –          | –           |
| 100      | –                                          | –          | 11365       |
| 106A     | –                                          | –          | –           |
| Black    | –                                          | B39CH      | –           |
| 107      | –                                          | –          | 11425       |
| 107H     | –                                          | –          | –           |
| 112      | –                                          | –          | 11426       |
| 112H     | –                                          | –          | –           |
| 115      | –                                          | –          | 11308       |
| 115H     | –                                          | –          | –           |
| 125      | –                                          | –          | 11416       |
| 125H     | –                                          | –          | –           |
| 126      | –                                          | –          | 11443       |
| 130      | –                                          | –          | 11417       |
| 138      | –                                          | –          | 11366       |
| 140      | –                                          | –          | 11418       |
| 140H     | –                                          | –          | –           |
| 150      | –                                          | –          | 11419       |
| 150H     | –                                          | –          | –           |
| 160      | –                                          | –          | 11442       |
| 161      | –                                          | –          | 11420       |
| 168      | –                                          | –          | 11447       |
| 175      | –                                          | –          | 11421       |
| 204      | –                                          | –          | 11448       |
| 212      | –                                          | –          | 11449       |
| 214      | –                                          | –          | 11337       |

\* Obsolete, consult your Regional Sales Office for availability.

### Diagrams

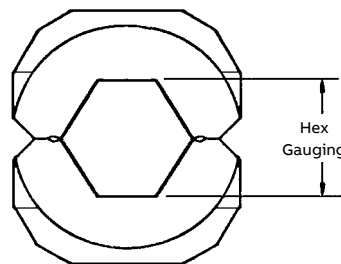


Fig. 2

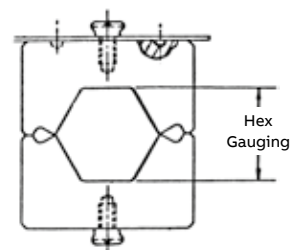


Fig. 1

Manual compression tools and cutters



HM 250 mechanical single-indent dieless crimper

- Manually operated single-indent compression tool
- For copper wire #8 AWG to 250 kcmil
- For aluminum wire #8 to 4/0 AWG

| Cat no.     | Description                              | Pkg. qty. |
|-------------|------------------------------------------|-----------|
| HM-250 TOOL | Mechanical single-indent dieless crimper | 1         |



Utility cable slicers

- For use on copper and aluminum cable only
- Not to be used on steel or ACSR cable

| Cat no. | Description               | Maximum conductor size (kcmil) | Max. OD inc. insulation (in.)  | Overall length (in.)           | Pkg. qty. |
|---------|---------------------------|--------------------------------|--------------------------------|--------------------------------|-----------|
| UT 4 C  | Cable slicer – small      | 600 Al – 350 Cu                | 1 <sup>5</sup> / <sub>16</sub> | 21                             | 1         |
| UT 6 C  | Cable slicer – large      | 1,000 Al – 500 Cu              | 2                              | 31 <sup>1</sup> / <sub>2</sub> | 1         |
| UT 4 B* | Blade assembly for UT 4 C | –                              | –                              | –                              | 1         |
| UT 6 B* | Blade assembly for UT 6 C | –                              | –                              | –                              | 1         |

\* UT 4 B and UT 6 B available from Tool Service centers.

## Cutting dies and other tools



BY55

40CS

### Cable slicing die sets

- Cut copper and aluminum insulated cable sizes from #8 AWG through 500 kcmil
- Produce clean, squared-end cut which eliminates extra trimming of conductor strands

| Cat no. | Maximum cable size (AWG or kcmil) | Tools                         | Pkg. qty. |
|---------|-----------------------------------|-------------------------------|-----------|
| BY55    | 2/0                               | TBM6H, TBM6PCR-LI             | 1         |
| 40CS    | 4/0                               | TBM14M, 13100A and TBM14CR-LI | 1         |
| 156CS   | 500                               | TBM15I and TBM15CR-LI         | 1         |



21649 cable bender

| Cat no. | Description                      | Pkg. qty. |
|---------|----------------------------------|-----------|
| 21649   | Bender for cable up to 750 kcmil | 1         |



CTR-1 C-tap removal tool

| Cat no. | Description        | Pkg. qty. |
|---------|--------------------|-----------|
| CTR-1   | C-tap removal tool | 1         |



### Type WW wire bristle brush

- Removes oxides from conductor surfaces
- Easy-grip handle with guard to prevent rubber-glove puncture
- Replaceable long-life brushes can be rotated
- Handle and guard coated with durable, non-conductive plastic for safety

| Cat no. | Description                | Pkg. qty. |
|---------|----------------------------|-----------|
| WWB1    | Complete brush with handle | 1         |
| WRB1    | Brush replacement          | 1         |



### Allen wrench

The compact, dependable tool for turning a screw.

- Enables you to keep a steady grip while turning
- Matches the most popular screw sizes
- Available for  $\frac{5}{16}$  in. and  $\frac{3}{8}$  in. hex screws
- PVC-dipped handle

| Cat no. | For hex screw size (in.) |
|---------|--------------------------|
| WA 516  | $\frac{5}{16}$           |
| WA 38   | $\frac{3}{8}$            |



## Replacement batteries



### Battery replacement for BPLT series tools

Series BPLT tool use Makita brand batteries, catalogue no. 1422. Not sold through ABB.



### MAKITA LXT 18 V lithium-ion battery

- Equipped with Star Protection Computer Controls™ to help protect against overloading, over-discharging and over-heating
- Impact-resistant outer case and shock-absorbing inner liner are engineered to help protect the battery

| Cat no. | Dimensions (L x W x H)      | Weight (lb) | Capacity | Output  | Pkg. qty. |
|---------|-----------------------------|-------------|----------|---------|-----------|
| BAT-MK  | 4.2 in. x 3.3 in. x 2.6 in. | 1.2         | 5.0 Ah   | 18 V DC | 1         |



### Adapter for Li battery

Converts older TBM series battery tools with poke-in style battery to the new Li-ion battery platform, allowing for higher productivity as batteries are interchangeable across the Li-ion tools.

| Cat no.    | Dimensions (L x H)   | Weight (lb) | Capacity | Output    | Pkg. qty. |
|------------|----------------------|-------------|----------|-----------|-----------|
| 144-ADP-LI | 6.05 in. x 12.87 in. | 0.4         | 3.0 Ah   | 14.4 V DC | 1         |



### Charger for MAKITA LXT 18 V batteries‡

- Charger works across the MAKITA LXT 18 V battery platform.

| Cat no. | Dimensions (L x W x H)    | Weight (lb) | Capacity          | Output         | Pkg. qty. |
|---------|---------------------------|-------------|-------------------|----------------|-----------|
| CHR-MK  | 9 in. x 5.7 in. x 3.2 in. | 1.70        | 120 V AC 50–60 Hz | 7.2 V DC– 18 V | 1         |

## Hydraulic PowerTap™ system

- 01 Place cables into connector.
- 02 Place tool head assembly on connector and tighten.
- 03 Attach power unit to tool head assembly using the unique quick-connect coupler.
- 04 Activate power unit.
- 05 Release power unit trigger. Remove the entire tool assembly from the connection.
- 06 The tool head can now be disassembled by pressing the lever on the quick-connect coupling — ready for the next install or for transport.



### Blackburn® battery-powered wedge connector tool

Eliminates the hassles of powder actuation.

- Power unit and tool head feature a unique quick-connect coupler that engages easily and stays locked until the release lever is depressed
  - Quick-connect coupler enables easy assembly of cable and connector without power unit being engaged
  - Once the assembly has been made, power unit can be engaged, using quick-connect coupler to complete final wedge insertion
  - Integrated positive-stop valve precisely matches output pressure of tool to the wedge tap connector being installed
  - Audible bypass alerts you when optimum pressure is achieved
- Tool operates without cartridges
  - Lower installed cost
  - No powder fouling — minimizes cleaning and maintenance
  - Elimination of powder actuation improves safety
- Ergonomic pistol-grip handle ensures user comfort
- Rugged, weather-resistant housing is built to last in outdoor conditions

### Installation sequence for the Blackburn® hydraulic PowerTap™ system



01



02



03



04



05



06

| Cat no.                                               | Power unit | Small tool head | Large tool head | Coupling assembly | 2 batteries | Battery charger | Connector removal clips | Carrying case |
|-------------------------------------------------------|------------|-----------------|-----------------|-------------------|-------------|-----------------|-------------------------|---------------|
| <b>Blackburn battery-powered wedge connector tool</b> |            |                 |                 |                   |             |                 |                         |               |
| HPT-TOOL                                              | X          | X               | X               | X                 | X           | X               | X                       | X             |
| HPT-TOOL-S                                            | X          | X               | —               | X                 | X           | X               | X                       | X             |
| HPT-TOOL-L                                            | X          | —               | X               | X                 | X           | X               | X                       | X             |
| HPT-TOOL-PU                                           | X          | —               | —               | X                 | X           | X               | —                       | X             |

## Assorted die kits

—  
01 Side A  
—  
02 Side B



—  
01



—  
02

### EZ-CK SS DIEKIT — Die sets kit

All the ABB dies you need to crimp the complete ABB EZGround® connector offering, presented in a two-sided metal carrying case. The reverse side of this kit allows you to keep all your colour-coded Color-Keyed crimping dies in one convenient location. A cable vs die reference chart inside each cover lets you sort and organize all your Color-Keyed compression connector dies for either copper or aluminum conductors. Additional compartments for cutting dies and adaptors round off this great package.



| Cat no.             | Die cat. no. | Qty. | Die colour | Copper<br>(AWG or kcmil) | Aluminum<br>(AWG or kcmil) |
|---------------------|--------------|------|------------|--------------------------|----------------------------|
| <b>Die sets kit</b> |              |      |            |                          |                            |
| EZ-CK SS DIEKIT     | 15528SS      | —    | Brown      | 2                        | —                          |
|                     | 15513SS      | —    | Green      | 1                        | 4 AWG                      |
|                     | 15508SS      | —    | Pink       | 1/0                      | 2 AWG                      |
|                     | 15526SS      | —    | Black      | 2/0                      | 1 (Gold)                   |
|                     | 15530SS      | —    | Orange     | 3/0                      | 1/0 (Tan)                  |
|                     | 15511SS      | —    | Purple     | 4/0                      | 2/0 (Olive)                |
|                     | 15510SS      | —    | Yellow     | 250                      | —                          |
|                     | 15534SS      | —    | White      | 300                      | 4/0                        |
|                     | 15514SS      | —    | Red        | 350                      | 250                        |
|                     | 15506SS      | —    | Brown      | 500                      | 350                        |
|                     | 15515SS      | —    | Black      | 750                      | 650                        |
|                     | 15G121R      | —    | —          | —                        | —                          |
|                     | 15G86R       | —    | —          | —                        | —                          |
|                     | 15501A       | —    | —          | —                        | —                          |
|                     | 15G126R      | —    | —          | —                        | —                          |
|                     | CTB8         | —    | —          | —                        | —                          |
|                     | COLCHA2-E    | —    | —          | —                        | —                          |
|                     | GRNDIESEL-E  | —    | —          | —                        | —                          |

Assorted die kits



OD-TOOL-KIT

This kit is offered in a metal carrying case with heavy-duty handle and sturdy closures. The best way to carry the connectors and tools you need for commercial and residential hook-ups.

| Cat no.     | Kit includes                       | Qty. |
|-------------|------------------------------------|------|
| OD-TOOL-KIT | Metallic carrying case             | 1    |
|             | ODB1 – Blackburn® Compression Tool | 1    |
|             | WR159 – Compression connectors     | 18   |
|             | WR189 – Compression connectors     | 12   |
|             | WR289 – Compression connectors     | 5    |
|             | WR379 – Compression connectors     | 5    |
|             | WR419 – Compression connectors     | 5    |
|             | C5C – Insulating covers            | 30   |
|             | C7C – Insulating covers            | 15   |

ODB compression tool with straight wooden handles and ODH1 insulated heat cover (installed on ODB1) can be ordered separately.



TBM45SKIT-N

TBM45SKIT-N includes the following:

| Cat no.     | Qty. | Cat. no.    | Cable size (AWG) | Items            | Weight/lb each |
|-------------|------|-------------|------------------|------------------|----------------|
| TBM45SKIT-N | 25   | 54130       | #8               | One-hole lugs    | 20             |
|             | 25   | 54105       | #6               | One-hole lugs    | 20             |
|             | 25   | 54106       | #4               | One-hole lugs    | 20             |
|             | 25   | 54107       | #2-#3            | One-hole lugs    | 20             |
|             | 25   | 54108       | #1               | One-hole lugs    | 20             |
|             | 25   | 54143-TB    | #2               | One-hole lugs    | 20             |
|             | 25   | 54136       | #6               | One-hole lugs    | 20             |
|             | 25   | 54804       | #8               | 2-way connectors | 20             |
|             | 25   | 54805       | #6               | 2-way connectors | 20             |
|             | 25   | 54806       | #4               | 2-way connectors | 20             |
|             | 25   | 54807       | #2-#3            | 2-way connectors | 20             |
|             | 25   | 54808       | #1               | 2-way connectors | 20             |
|             | 1    | TBM45S Tool | -                | -                | 20             |

## Tool cross reference

| Die designation | Blackburn®/ABB                                                                |                                               | Burndy                                  |                                                          |                      | EEI        |
|-----------------|-------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------|----------------------------------------------------------|----------------------|------------|
|                 | Mechanical<br>OD58 series<br>and TBM6H<br>hydraulic head<br>(except as noted) | Hydraulic<br>JB12B, TBM14M,<br>13100A, TBM15I | Mechanical                              | Hydraulic                                                | Alcoa/other          |            |
| 5/8             | BY31<br>13474/13477*<br>(Orange/Tan nest)                                     | B58CS                                         | W-BG                                    | U-BG                                                     | G<br>TU<br>Peach     | –          |
| 840             | BY37<br>13474/13477*<br>(Red/Blue nest)                                       | B49EA<br>15512                                | W-K840                                  | U-K840<br>U-249                                          | TX                   | –          |
| O               | OJB<br>13470*                                                                 | HO<br>15501-A                                 | W-O                                     | U-O                                                      | B11AH                | –          |
| D               | DBL<br>13471*                                                                 | HD<br>15502                                   | –                                       | U-D                                                      | BD                   | –          |
| N               | –                                                                             | HN<br>15612**                                 | –                                       | U-N                                                      | BN                   | –          |
| R               | –                                                                             | 15620**                                       |                                         | U-R                                                      | –                    | –          |
| B               | BY45                                                                          | HBKT                                          | W-KB                                    | –                                                        | –                    | –          |
| T               | BY49                                                                          |                                               | W-BG                                    |                                                          |                      |            |
| BKT             |                                                                               |                                               |                                         |                                                          |                      |            |
| K               | BY47                                                                          | HBKT                                          | W-KK                                    | –                                                        | –                    | –          |
| C               | BY33                                                                          | HBKC                                          | W-C                                     | U-C                                                      | –                    | –          |
| KC              | –                                                                             | B39EA                                         | W-247                                   | U-247<br>U-167                                           | –                    | –          |
| J               | BY19                                                                          | B73AH                                         | W161                                    | U-161                                                    | TP                   | –          |
| 5/16            | BY51                                                                          |                                               | W-242                                   | U-242                                                    |                      |            |
| P, 3/8          | BY21<br>BY53                                                                  | B71AH<br>15513SS                              | W-162                                   | U-162                                                    | TK<br>TL<br>TN<br>TB | –          |
| 1/2             | –                                                                             | B17EA                                         | W-163                                   | U-163                                                    | B06AH                | 6A         |
| 510             |                                                                               | 15526SS                                       |                                         |                                                          | TQ                   |            |
| 500             |                                                                               | B72AH                                         |                                         |                                                          | TS                   |            |
| 5/8-1           | BY3                                                                           | B24EA                                         | W-BG                                    | U-BG                                                     | B08AH                | 8A         |
| 620             |                                                                               |                                               | W-165<br>W-243                          | U-165<br>U-243                                           | TU                   |            |
| 635             | BY41                                                                          | B30EA                                         | W-245<br>W-687                          | U-245                                                    | TWTY<br>B09AH        | 9A         |
| 737, 747        | BY33                                                                          | B39EA<br>15534SS                              | W-C<br>W-247<br>W-167<br>W-694<br>W-702 | U-247<br>U-167<br>U-694                                  | B10AH<br>TV          | 10A        |
| 781             | BY35                                                                          | B74AH                                         | W-247                                   | U-247<br>U-659                                           | –                    | –          |
| 840             | BY37                                                                          | B49EA                                         | W-249                                   | U-249                                                    | TX                   | 11A        |
| 845             |                                                                               | 15514SS<br>15512SS                            |                                         | U-658<br>U-168                                           | B11AH                |            |
| 1               | –                                                                             | B75AH<br>15506SS<br>B61EA                     | W-249                                   | U-251<br>U654                                            | TH<br>B12AH          | 12A        |
| 1 1-1/8-1       | –                                                                             | B80EA<br>B20AH<br>15536SS<br>15505SS          | W-249                                   | U-321<br>U-490<br>U-317<br>U468<br>U426<br>U547<br>U-655 | B13AH                | 13A<br>14A |
| 1-5/16          | –                                                                             | B76AH<br>B78AH<br>B20AH<br>15515SS            | W-249                                   | U-318<br>U-327<br>U-261<br>U-788                         | B14AH                | 14A        |

All Blackburn® and Alcoa "B" series dies and Burndy "U" dies fit the ABB/Blackburn® hydraulic tools listed.  
Adapter 15500TB required with TBM15.

\* Fit TBM6, 6S, and TBM60RS (same as Homac UT5 and "H" dies series).

\*\* Fit TBM15 only.

For reference only. Connectors may require a specific die for proper application.

## Tool cross reference (continued)

| Tool type                                                 | Blackburn®/ABB                                                                          | Burndy                     | Kearny      | Anderson/Huskie | Homac® | Alcoa         |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------|-------------|-----------------|--------|---------------|
| Mechanical                                                | OD58                                                                                    | MD5 series                 | OS49 series | ND series       | UT5    | –             |
|                                                           | OD581                                                                                   | MD6 series                 | OS50 series |                 |        |               |
|                                                           | ODF                                                                                     | MD7 series                 | 061 series  |                 |        |               |
|                                                           | ODF1                                                                                    |                            | 062 series  |                 |        |               |
|                                                           | ODF3                                                                                    |                            | 063 series  |                 |        |               |
|                                                           | ODB                                                                                     |                            | 068 series  |                 |        |               |
|                                                           | ODB1                                                                                    |                            |             |                 |        |               |
|                                                           | ODB3                                                                                    |                            |             |                 |        |               |
| –                                                         | TBM-250 TOOL                                                                            | MY28 series<br>MY29 series | –           | –               | UT3    | –             |
| –                                                         | TBM5                                                                                    | MD5 series                 | –           | –               | UT5    | –             |
|                                                           | 5S                                                                                      | MD6 series                 |             |                 |        |               |
|                                                           | 6                                                                                       | MD7 series                 |             |                 |        |               |
|                                                           | 6S                                                                                      | (only to 4/0)              |             |                 |        |               |
|                                                           | 8                                                                                       |                            |             |                 |        |               |
|                                                           | 8S                                                                                      |                            |             |                 |        |               |
|                                                           | TBM60RS                                                                                 |                            |             |                 |        |               |
|                                                           | (For colour code<br>copper and aluminum<br>series only except as<br>noted on die chart) |                            |             |                 |        |               |
| Self-contained<br>hydraulic                               | JB12B                                                                                   | Y35                        | WH2         | –               | –      | –             |
|                                                           | TBM14M                                                                                  | Y39<br>Y750                | WH3         |                 |        |               |
| Remote hydraulic                                          | 13100A,                                                                                 | Y35BH                      | PH13-10     | EP series       | –      | 12A<br>12AC   |
|                                                           | TBM15,                                                                                  | Y39BH                      | PH14        |                 |        |               |
|                                                           | TBM6H                                                                                   | Y750BH                     |             |                 |        |               |
|                                                           |                                                                                         | Y45                        |             |                 |        |               |
|                                                           |                                                                                         | Y46                        |             |                 |        |               |
| Battpac™<br>battery-powered<br>compression and<br>cutting | TBM6PCR-LI                                                                              | BAT500                     | –           | EP series       | UT15   | 12HA<br>12HAC |
|                                                           | TBM14CR-LI                                                                              | BCT500                     |             |                 |        |               |
|                                                           | TBM15CR-LI                                                                              | BAT35                      |             |                 |        |               |
|                                                           | TBM58PCTS-LI                                                                            | BAT750                     |             |                 |        |               |
|                                                           | TBM54CT-LI                                                                              | Y700DC-1B                  |             |                 |        |               |
|                                                           | TBM40BSCT<br>13950PI                                                                    |                            |             |                 |        |               |

Tools may have limits on connector range capabilities. Consult your ABB regional sales office if necessary.

All hydraulic heads listed are for 10,000 psi systems only.

TBM8-750 and TBM8-750M-1 are dieless, indent-type crimp hydraulic tools equivalent to the Anderson Versa-Crimp tools and the Burndy Y644.

Consult your ABB regional sales office for application if necessary.