



Heavy-duty battery connectors and tools

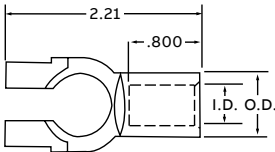
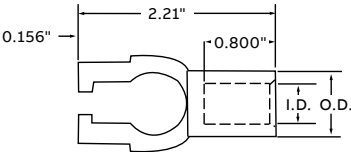


**Material** – High-conductivity copper  
**Finish** – Electro tin plated  
**Installing tools** – TBM5-SV, TBM5V, TBM8250S

Tin-plated straight battery connectors

| Cat. no.  | Bulk cat. no. | SAE cable size (gauge) | Description        | I.D. (in.) | O.D. (in.) | Pkg. qty. | Bulk pkg. qty. | Colour code |
|-----------|---------------|------------------------|--------------------|------------|------------|-----------|----------------|-------------|
| BAC4SUBT  | BAC4SUBT-C    | 4                      | Straight Universal | 0.261      | 0.430      | 5         | 100            | Grey        |
| BAC2SUBT  | BAC2SUBT-C    | 2                      | Straight Universal | 0.340      | 0.550      | 5         | 100            | Green       |
| BAC1SUBT  | BAC1SIBT-C    | 1                      | Straight Universal | 0.340      | 0.550      | 5         | 100            | Pink        |
| BAC10SUBT | BAC10SUBT-C   | 1/0                    | Straight Universal | 0.455      | 0.625      | 5         | 100            | Black       |
| BAC20SUBT | BAC20SUBT-C   | 2/0                    | Straight Universal | 0.502      | 0.676      | 5         | 100            | Orange      |
| BAC30SUBT | BAC30SUBT-C   | 3/0                    | Straight Universal | 0.530      | 0.730      | 5         | 100            | Purple      |
| BAC40SUBT | BAC40SUBT-C   | 4/0                    | Straight Universal | 0.600      | 0.844      | 5         | 100            | Yellow      |
| BAC4SPBT  | BAC4SPBT-C    | 4                      | Straight Positive  | 0.261      | 0.430      | 5         | 100            | Grey        |
| BAC4SNBT  | BAC4SNBT-C    | 4                      | Straight Negative  | 0.261      | 0.430      | 5         | 100            | Grey        |
| BAC2SPBT  | BAC2SPBT-C    | 2                      | Straight Positive  | 0.340      | 0.550      | 5         | 100            | Green       |
| BAC2SNBT  | BAC2SNBT-C    | 2                      | Straight Negative  | 0.340      | 0.550      | 5         | 100            | Green       |
| BAC1SPBT  | BAC1SPBT-C    | 1                      | Straight Positive  | 0.340      | 0.550      | 5         | 100            | Pink        |
| BAC1SNBT  | BAC1SNBT-C    | 1                      | Straight Negative  | 0.340      | 0.550      | 5         | 100            | Pink        |
| BAC10SPBT | BAC10SPBT-C   | 1/0                    | Straight Positive  | 0.455      | 0.625      | 5         | 100            | Black       |
| BAC10SNBT | BAC10SNBT-C   | 1/0                    | Straight Negative  | 0.455      | 0.625      | 5         | 100            | Black       |
| BAC20SPBT | BAC20SPBT-C   | 2/0                    | Straight Positive  | 0.502      | 0.676      | 5         | 100            | Orange      |
| BAC20SNBT | BAC20SNBT-C   | 2/0                    | Straight Negative  | 0.502      | 0.676      | 5         | 100            | Orange      |
| BAC30SPBT | BAC30SPBT-C   | 3/0                    | Straight Positive  | 0.530      | 0.730      | 5         | 100            | Purple      |
| BAC30SNBT | BAC30SNBT-C   | 3/0                    | Straight Negative  | 0.530      | 0.730      | 5         | 100            | Purple      |
| BAC40SPBT | BAC40SPBT-C   | 4/0                    | Straight Positive  | 0.600      | 0.844      | 5         | 100            | Yellow      |
| BAC40SNBT | BAC40SNBT-C   | 4/0                    | Straight Negative  | 0.600      | 0.844      | 5         | 100            | Yellow      |

Diagrams



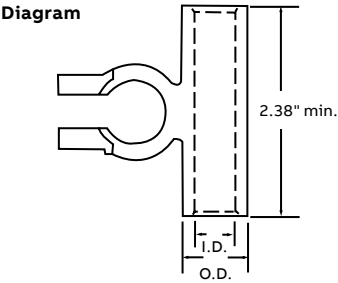
Heavy-duty battery connectors and tools



**Material** – High-conductivity copper  
**Finish** – Electro tin plated  
**Installing tools** – TBM5-SV, TBM5V

Tin-plated flag battery connectors

| Cat. no.  | Bulk cat. no. | SAE cable size (gauge) | Description    | I.D. (in.) | O.D. (in.) | Pkg. qty. | Bulk pkg. qty. | Colour code |
|-----------|---------------|------------------------|----------------|------------|------------|-----------|----------------|-------------|
| BAC10FU   | BAC10FNBL     | 1/0                    | Flag Universal | 0.455      | 0.625      | 5         | 100            | Black       |
| BAC20FU   | BAC20FNBL     | 2/0                    | Flag Universal | 0.502      | 0.676      | 5         | 100            | Orange      |
| BAC30FU   | BAC30FNBL     | 3/0                    | Flag Universal | 0.530      | 0.730      | 5         | 100            | Purple      |
| BAC40FU   | BAC40FNBL     | 4/0                    | Flag Universal | 0.600      | 0.844      | 5         | 100            | Yellow      |
| BAC10FPBT | BAC10FPBT-C   | 1/0                    | Flag Positive  | 0.455      | 0.625      | 5         | 100            | Black       |
| BAC10FNBT | BAC10FNBT-C   | 1/0                    | Flag Negative  | 0.455      | 0.625      | 5         | 100            | Black       |
| BAC20FPBT | BAC20FPBT-C   | 2/0                    | Flag Positive  | 0.502      | 0.676      | 5         | 100            | Orange      |
| BAC20FNBT | BAC20FNBT-C   | 2/0                    | Flag Negative  | 0.502      | 0.676      | 5         | 100            | Orange      |
| BAC30FPBT | BAC30FPBT-C   | 3/0                    | Flag Positive  | 0.530      | 0.730      | 5         | 100            | Purple      |
| BAC30FNBT | BAC30FNBT-C   | 3/0                    | Flag Negative  | 0.530      | 0.730      | 5         | 100            | Purple      |
| BAC40FPBT | BAC40FPBT-C   | 4/0                    | Flag Positive  | 0.600      | 0.844      | 5         | 100            | Yellow      |
| BAC40FNBT | BAC40FNBT-C   | 4/0                    | Flag Negative  | 0.600      | 0.844      | 5         | 100            | Yellow      |



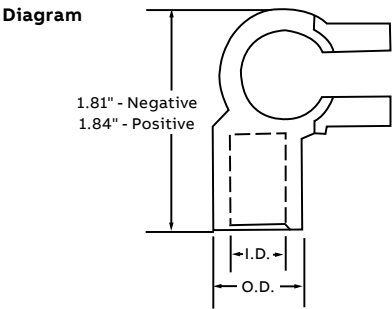
Heavy-duty battery connectors and tools



**Material** – High-conductivity copper  
**Finish** – Electro tin plated  
**Installing tools** – TBM5-SV, TBM5V

Tin-plated elbow battery connectors

| Cat. no.   | Bulk cat. no. | SAE cable size (gauge) | Description          | I.D. (in.) | O.D. (in.) | Pkg. qty. | Bulk pkg. qty. | Colour code |
|------------|---------------|------------------------|----------------------|------------|------------|-----------|----------------|-------------|
| BAC10ERNBT | BAC10ERNBT-C  | 1/0                    | Right Elbow–Negative | 0.455      | 0.625      | 5         | 100            | Black       |
| BAC10ERPBT | BAC10ERPBT-C  | 1/0                    | Right Elbow–Positive | 0.455      | 0.625      | 5         | 100            | Orange      |
| BAC20ERNBT | BAC20ERNBT-C  | 2/0                    | Right Elbow–Negative | 0.502      | 0.676      | 5         | 100            | Orange      |
| BAC20ERPBT | BAC20ERPBT-C  | 2/0                    | Right Elbow–Positive | 0.502      | 0.676      | 5         | 100            | Orange      |
| BAC30ERNBT | BAC30ERNBT-C  | 3/0                    | Right Elbow–Negative | 0.530      | 0.730      | 5         | 100            | Purple      |
| BAC30ERPBT | BAC30ERPBT-C  | 3/0                    | Right Elbow–Positive | 0.530      | 0.730      | 5         | 100            | Purple      |
| BAC40ERNBT | BAC40ERNBT-C  | 4/0                    | Right Elbow–Negative | 0.600      | 0.844      | 5         | 100            | Yellow      |
| BAC40ERPBT | BAC40ERPBT-C  | 4/0                    | Right Elbow–Positive | 0.600      | 0.844      | 5         | 100            | Yellow      |
| BAC10ELNBT | BAC10ELNBT-C  | 1/0                    | Left Elbow–Negative  | 0.455      | 0.625      | 5         | 100            | Black       |
| BAC10ELPBT | BAC10ELPBT-C  | 1/0                    | Left Elbow–Positive  | 0.455      | 0.625      | 5         | 100            | Orange      |
| BAC20ELNBT | BAC20ELNBT-C  | 2/0                    | Left Elbow–Negative  | 0.502      | 0.676      | 5         | 100            | Orange      |
| BAC20ELPBT | BAC20ELPBT-C  | 2/0                    | Left Elbow–Positive  | 0.502      | 0.676      | 5         | 100            | Orange      |
| BAC30ELNBT | BAC30ELNBT-C  | 3/0                    | Left Elbow–Negative  | 0.530      | 0.730      | 5         | 100            | Purple      |
| BAC30ELPBT | BAC30ELPBT-C  | 3/0                    | Left Elbow–Positive  | 0.530      | 0.730      | 5         | 100            | Purple      |
| BAC40ELNBT | BAC40ELNBT-C  | 4/0                    | Left Elbow–Negative  | 0.600      | 0.844      | 5         | 100            | Yellow      |
| BAC40ELPBT | BAC40ELPBT-C  | 4/0                    | Left Elbow–Positive  | 0.600      | 0.844      | 5         | 100            | Yellow      |



## Heavy-duty battery connectors and tools



**Material** – High-conductivity copper

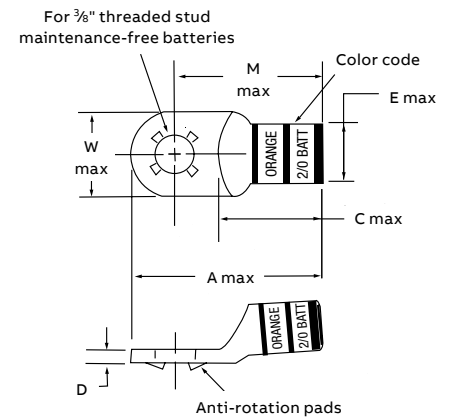
**Finish** – Lead-plated

**Installing tools** – TBM5-SV or TBM5V

### Stackable battery connectors – Lead-plated

| Cat. no. | Bulk cat. no. | SAE cable size (gauge) | Dimensions in. (mm) |             |             |             |             | Stud size (in.) | Pkg. qty. | Bulk pkg. qty. | Colour code |
|----------|---------------|------------------------|---------------------|-------------|-------------|-------------|-------------|-----------------|-----------|----------------|-------------|
|          |               |                        | A<br>±0.040         | M<br>±0.020 | W<br>±0.020 | C<br>±0.020 | E<br>±0.010 |                 |           |                |             |
| BAC438   | 273-31853-1   | 4                      | 1.46 (37.0)         | 1.14 (29.0) | 0.62 (15.6) | 0.75 (19.1) | 0.37 (9.3)  | $\frac{3}{8}$   | 10        | 100            | Grey        |
| BAC238   | 273-31853-2   | 2                      | 1.78 (45.1)         | 1.40 (35.6) | 0.68 (17.1) | 0.85 (21.6) | 0.47 (11.9) | $\frac{3}{8}$   | 10        | 100            | Green       |
| BAC138   | 273-31853-3   | 1                      | 1.88 (47.6)         | 1.50 (38.1) | 0.75 (44.5) | 0.95 (24.1) | 0.52 (13.2) | $\frac{3}{8}$   | 10        | 100            | Pink        |
| BAC1038  | 273-31853-4   | 1/0                    | 1.93 (48.9)         | 1.55 (39.4) | 0.83 (21.0) | 1.00 (25.4) | 0.57 (14.5) | $\frac{3}{8}$   | 10        | 100            | Black       |
| BAC2038  | 273-31853-5   | 2/0                    | 2.11 (53.6)         | 1.65 (41.8) | 0.93 (23.6) | 1.10 (27.9) | 0.63 (16.1) | $\frac{3}{8}$   | 10        | 100            | Orange      |
| BAC3038  | 273-31853-6   | 3/0                    | 2.03 (51.4)         | 1.65 (41.9) | 1.03 (26.0) | 1.10 (27.9) | 0.70 (17.8) | $\frac{3}{8}$   | 10        | 100            | Purple      |
| BAC4038  | 273-31853-7   | 4/0                    | 2.23 (57.8)         | 1.90 (48.3) | 1.03 (26.0) | 1.35 (34.3) | 0.77 (19.5) | $\frac{3}{8}$   | 10        | 100            | Yellow      |

### Diagram





Heavy-duty battery connectors and tools



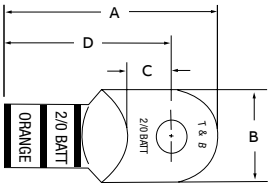
**Material** – High-conductivity copper  
**Finish** – Electro tin plated  
**Installing tools** – TBM5-SV or TBM5V

Starter lugs – Tin-plated



| Cat. no. | Bulk cat. no. | SAE cable size (gauge) | Stud size (in.) | Dimensions (mm) |            |            |            | Pkg. qty. | Bulk pkg. qty. | Colour code |
|----------|---------------|------------------------|-----------------|-----------------|------------|------------|------------|-----------|----------------|-------------|
|          |               |                        |                 | A<br>±0.04      | B<br>±0.02 | C<br>±0.02 | D<br>±0.02 |           |                |             |
| BAL414   | 273-31852-1   | 4                      | ¼               | 140             | 52         | 40         | 115        | 10        | 100            | Grey        |
| BAL4516  | 273-31852-2   | 4                      | ⅜               | 145             | 61         | 363        | 114        | 10        | 100            |             |
| BAL438   | 273-31852-3   | 4                      | ⅝               | 145             | 61         | 6          | 114        | 10        | 100            |             |
| BAL2516  | –             | 2                      | ⅜               | 159             | 69         | 40         | 1258       | 10        | –              | Green       |
| BAL238   | 273-31852-4   | 2                      | ⅝               | 178             | 67         | 55         | 140        | 10        | 100            |             |
| BAL212   | 273-31852-5   | 2                      | ½               | 177             | 76         | 54         | 140        | 10        | 100            |             |
| BAL1516  | –             | 1                      | ⅜               | 183             | 76         | 49         | 150        | 10        | –              | Pink        |
| BAL138   | 273-31852-6   | 1                      | ⅝               | 185             | 75         | 55         | 150        | 10        | 100            |             |
| BAL112   | 273-31852-7   | 1                      | ½               | 220             | 75         | 75         | 170        | 10        | 100            |             |
| BAL10516 | –             | 1/0                    | ⅝               | 192             | 83         | 50         | 150        | 10        | –              | Black       |
| BAL1038  | 273-31852-8   | 1/0                    | ⅝               | 193             | 83         | 55         | 155        | 10        | 100            |             |
| BAL1012  | 273-31852-9   | 1/0                    | ½               | 197             | 88         | 53         | 153        | 10        | 100            |             |
| BAL20516 | –             | 2/0                    | ⅝               | 206             | 93         | 50         | 160        | 10        | –              | Orange      |
| BAL2038  | 273-31852-10  | 2/0                    | ⅝               | 211             | 93         | 55         | 165        | 10        | 100            |             |
| BAL2012  | 273-31852-11  | 2/0                    | ½               | 211             | 93         | 55         | 165        | 10        | 100            |             |
| BAL30516 | –             | 3/0                    | ⅝               | 216             | 103        | 55         | 165        | 10        | –              | Purple      |
| BAL3038  | 273-31852-12  | 3/0                    | ⅝               | 203             | 103        | 55         | 165        | 10        | 100            |             |
| BAL3012  | 273-31852-13  | 3/0                    | ½               | 235             | 103        | 75         | 185        | 10        | 100            |             |
| BAL40516 | –             | 4/0                    | ⅝               | 240             | 113        | 59         | 184        | 10        | –              | Yellow      |
| BAL4038  | 273-31852-14  | 4/0                    | ⅝               | 228             | 112        | 55         | 190        | 10        | 100            |             |
| BAL4012  | 273-31852-15  | 4/0                    | ½               | 260             | 112        | 75         | 210        | 10        | 100            |             |

Diagram



## Heavy-duty battery connectors and tools



**Material** – High-conductivity copper

**Finish** – Electro tin plated

**Installing tools** – TBM5-SV or TBM5V

### Splices (two-way connectors)

| Cat. no. | Bulk cat. no. | SAE<br>cable size<br>(gauge) | Pkg. qty. | Bulk<br>pkg. qty. | Colour<br>code |
|----------|---------------|------------------------------|-----------|-------------------|----------------|
| BAS4     | 273-31852-16  | 4                            | 10        | 100               | Grey           |
| BAS2     | 273-31852-17  | 2                            | 10        | 100               | Green          |
| BAS1     | 273-31852-18  | 1                            | 10        | 100               | Pink           |
| BAS10    | 273-31852-19  | 1/0                          | 10        | 100               | Black          |
| BAS20    | 273-31852-20  | 2/0                          | 10        | 100               | Orange         |
| BAS30    | 273-31852-21  | 3/0                          | 10        | 100               | Purple         |
| BAS40    | 273-31852-22  | 4/0                          | 10        | 100               | Yellow         |



**Material** – High-conductivity copper

**Finish** – Electro tin plated

**Installing tools** – TBM5-SV or TBM5V

**Insulating cover** – AC5X3

### “Y” splices

| Cat. no. | Strip cable size | SAE<br>cable size<br>(gauge) | Length (in.) | Colour<br>code |
|----------|------------------|------------------------------|--------------|----------------|
| BASY20   | 2/0–(2) #2       | 2/0                          | ¾            | Orange         |
| BASY30   | 3/0–(2) #1       | 3/0                          | ¾            | Purple         |
| BASY40   | 4/0–(2) 1/0      | 4/0                          | ¾            | Yellow         |

## Heavy-duty battery connectors and tools

Abrasion-resistant and engineered for optimum performance at both high and low temperatures



### Battery/starter cables

- Fine flexible copper rope stranding PVC jacket conforms to SAE J1127 specifications
- Layer of paper separates insulation from copper, providing easy stripping with no stranding damage
- Temperature-rated for 80 °C
- Flexibility ideal for tight spaces and cold environments
- Color-Keyed markings for fast and accurate identification
- Marked in 1-ft. increments for easy measurement
- Available in red or black jacket colour

**Material** – High-conductivity copper

**Finish** – Electro tin plated

**Installing tools** – TBM5-SV or TBM5V

### Battery/starter cables

| Cat. no.  | SAE cable size (gauge) | Cable length (ft.) | Cable colour |
|-----------|------------------------|--------------------|--------------|
| BC4-100   | 4                      | 100                | Black        |
| BC2-100   | 2                      | 100                |              |
| BC1-100   | 1                      | 100                |              |
| BC10-100  | 1/0                    | 100                |              |
| BC20-100  | 2/0                    | 100                |              |
| BC30-100  | 3/0                    | 100                |              |
| BC40-100  | 4/0                    | 100                |              |
| BC4-1000  | 4                      | 1,000              |              |
| BC2-500   | 2                      | 500                |              |
| BC1-500   | 1                      | 500                |              |
| BC10-500  | 1/0                    | 500                |              |
| BC20-500  | 2/0                    | 500                |              |
| BC30-500  | 3/0                    | 500                |              |
| BC40-500  | 4/0                    | 500                |              |
| BC4-1000R | 4                      | 1,000              | Red          |
| BC2-500R  | 2                      | 500                |              |
| BC1-500R  | 1                      | 500                |              |
| BC10-500R | 1/0                    | 500                |              |
| BC20-500R | 2/0                    | 500                |              |
| BC30-500R | 3/0                    | 500                |              |
| BC40-500R | 4/0                    | 500                |              |

| Cat. no. | SAE cable size (gauge) | Cable length (ft.) | Cable colour |
|----------|------------------------|--------------------|--------------|
| BC4-25   | 4                      | 25                 | Black        |
| BC2-25   | 2                      | 25                 |              |
| BC1-25   | 1                      | 25                 |              |
| BC10-25  | 1/0                    | 25                 |              |
| BC20-25  | 2/0                    | 25                 |              |
| BC30-25  | 3/0                    | 25                 |              |
| BC40-25  | 4/0                    | 25                 |              |
| BC4-25R  | 4                      | 25                 | Red          |
| BC2-25R  | 2                      | 25                 |              |
| BC1-25R  | 1                      | 25                 |              |
| BC10-25R | 1/0                    | 25                 |              |
| BC20-25R | 2/0                    | 25                 |              |
| BC30-25R | 3/0                    | 25                 |              |
| BC40-25R | 4/0                    | 25                 |              |

## Heavy-duty battery cable

Specially designed for demanding industrial and OEM requirements



- 105 °C Temperature-rated and UL recognized
- Heavier PVC jacket conforms to SAE J1127 specifications
- Color-Keyed markings for fast and accurate identification
- Marked in 1-ft. increments for easy measurement

- Layer of paper separates insulation from copper for easy stripping with no strand damage
- 600 V rated available in bulk only
- Application-specific – To order, contact your regional sales offices

## Heavy-duty battery connectors and tools



BCT840, BCT840S



TBM5SV, TBM5V

### BCT840, BCT840S:

- Adjustable die crimping tools for Color-Keyed cast and tubular connectors
- The single die is an integral part of the tool; no dies to lose or misplace
- Available with Shure Stake mechanism to ensure a complete crimp every time (BCT840S)
- Crimp casting and tubular connectors ranging from #4 to 4/0 AWG

### TBM5SV, TBM5V:

- Heavy-duty crimping tool including dies for #8–4/0 AWG battery connectors, lugs and splices
- Available with Shure Stake mechanism to ensure a complete crimp every time (TBM5S)

### Crimping tools

| Cat. no. | Description                                                                                | Pkg. qty. |
|----------|--------------------------------------------------------------------------------------------|-----------|
| BCT840   | Dieless crimp tool for cast and tubular battery connectors                                 | 1         |
| BCT840S  | Dieless crimp tool with Shure-Stake mechanism for cast and tubular battery connectors      | 1         |
| TBM5V    | Ratchet crimp tool with die for #8 to 4/0 AWG battery connectors                           | 1         |
| TBM5-SV  | Ratchet crimp tool with Shure-Stake mechanism and die for #8 to 4/0 AWG battery connectors | 1         |



- Cuts cable up to 500 kcmil
- Fiberglass handles and carbon steel blades
- For copper and aluminum cable only

### Cable cutter

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

Contact Tool Service for replacement blades.



### Cable stripper

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