

The innovative SBE® connectors provide cost-effective reliability, design flexibility and safety for your products' manufacture, installation and maintenance.

APP's 2 pole connector is available with a 320 amp rating, 150 Volts continuous AC or DC operation. There are SBE® connectors for many applications and wire sizes, 2/0 to 300 mcm (33.6 mm to 152 mm). Mechanical keys ensure connectors will only mate with connectors of the same color. Different color housings are selected to identify voltages, thus preventing mismatching of the power supply system.

## FEATURES

### • Genderless design

*Makes assembly quick and easy and reduces number of parts stocked*

### • Auxiliary contacts

*Provides ability to incorporate a secondary circuit*

### • Air supply system

*Supplies air to battery during charging*



## PRODUCT SPECIFICATIONS

| Connector Model                                    | SBE ®320       | Connector Model                            | SBE ®320     |
|----------------------------------------------------|----------------|--------------------------------------------|--------------|
| UL Current Rating (Amperes)*                       | 320*           | Life                                       |              |
| UL Voltage Ratings (Volts)                         | 150*           | a. No load (Contact/Disconnect Cycles)     | To 10,000    |
| Contact Barrel Wire Size (AWG)                     | 2/0 to 300 mcm | b. Under Load (Hot Plug 250 cycles @ 120V) | 100A*        |
| (mm <sup>2</sup> )                                 | 67.4 to 152    | Avg. Connection/Disconnect (lbs)           | 30           |
| Maximum Wire Insulation Diameter (inches)          | 1.10           | Operating Temperature Range °C**           | -20° to 105° |
| (mm)                                               | 27.94          | Flammability Rating of Housing Material    | UL94 V-0     |
| AVG Contact Resistance* (micro-ohms)               | 50             |                                            |              |
| Insulation Withstanding Test Voltage (Volts AC/DC) | 1300           |                                            |              |
| Contact Retention Force (lbs)                      | 500            |                                            |              |

\* UL Rated for 65°C rated wire or cable size

\*\* Contact factory for higher temperature rated connector

\*\*\* TUV on SBE®320

SBE®, UL and CSA Reference: This equipment is an Underwriters Laboratories Inc® recognized component. It is also listed by the Canadian Standards Association as certified.

## ORDERING INFORMATION

### 2 Pole Housing & 320 amp Contacts

| Part Number | Housing Color | Wire AWG | sq. mm |
|-------------|---------------|----------|--------|
| E6334G1     | Brown         | 2/0      | 67.4   |
| E6334G2     | Brown         | 3/0      | 85.0   |
| E6334G6     | Brown         | #2       | 33.6   |
| E6335G1     | Purple        | 2/0      | 67.4   |
| E6335G2     | Purple        | 3/0      | 85.0   |
| E6335G6     | Purple        | #2       | 33.6   |
| E6345G1     | Gray          | 2/0      | 67.4   |
| E6345G2     | Gray          | 3/0      | 85.0   |
| E6345G6     | Gray          | #2       | 33.6   |
| E6346G1     | Blue          | 2/0      | 67.4   |
| E6346G2     | Blue          | 3/0      | 85.0   |
| E6346G6     | Blue          | #2       | 33.6   |
| E6347G1     | Red           | 2/0      | 67.4   |
| E6347G2     | Red           | 3/0      | 85.0   |
| E6347G6     | Red           | #2       | 33.6   |
| E6348G1     | Green         | 2/0      | 67.4   |
| E6348G2     | Green         | 3/0      | 85.0   |
| E6348G6     | Green         | #2       | 33.6   |
| E6363G1     | Black         | 2/0      | 67.4   |
| E6363G2     | Black         | 3/0      | 85.0   |
| E6363G6     | Black         | #2       | 33.6   |

### 2 pole housing & 320 amp contacts continued

| Part Number | Housing Color | Wire AWG | sq. mm |
|-------------|---------------|----------|--------|
| E6364G1     | Yellow        | 2/0      | 67.4   |
| E6364G2     | Yellow        | 3/0      | 85.0   |
| E6364G6     | Yellow        | #2       | 33.6   |
| E6369G1     | Orange        | 2/0      | 67.4   |
| E6369G2     | Orange        | 3/0      | 85.0   |
| E6369G6     | Orange        | #2       | 33.6   |

### 2 Pole Housing, Contacts & Auxiliary Contacts

| Part Number | Housing Color | Wire AWG | sq. mm |
|-------------|---------------|----------|--------|
| E6332G1     | Brown         | 2/0      | 67.4   |
| E6332G2     | Brown         | 3/0      | 85.0   |
| E6332G6     | Brown         |          | 35.0   |
| E6333G1     | Purple        | 2/0      | 67.4   |
| E6333G2     | Purple        | 3/0      | 85.0   |
| E6333G6     | Purple        |          | 35.0   |
| E6340G1     | Gray          | 2/0      | 67.4   |
| E6340G2     | Gray          | 3/0      | 85.0   |

### 2 pole housing, contacts & auxiliary contacts continued

| Part Number | Housing Color | Wire AWG | sq. mm |
|-------------|---------------|----------|--------|
| E6340G6     | Gray          |          | 35.0   |
| E6341G1     | Blue          | 2/0      | 67.4   |
| E6341G2     | Blue          | 3/0      | 85.0   |
| E6341G6     | Blue          |          | 35.0   |
| E6342G1     | Red           | 2/0      | 67.4   |
| E6342G2     | Red           | 3/0      | 85.0   |
| E6342G6     | Red           |          | 35.0   |
| E6343G1     | Green         | 2/0      | 67.4   |
| E6343G2     | Green         | 3/0      | 85.0   |
| E6343G6     | Green         |          | 35.0   |
| E6359G1     | Black         | 2/0      | 67.4   |
| E6359G2     | Black         | 3/0      | 85.0   |
| E6359G6     | Black         |          | 35.0   |
| E6360G1     | Yellow        | 2/0      | 67.4   |
| E6360G2     | Yellow        | 3/0      | 85.0   |
| E6360G6     | Yellow        |          | 35.0   |
| E6368G1     | Orange        | 2/0      | 67.4   |
| E6368G2     | Orange        | 3/0      | 85.0   |
| E6368G6     | Orange        |          | 35.0   |

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## ORDERING INFORMATION

### Housings Only

| Part Number | Color  |
|-------------|--------|
| E6350       | Gray   |
| E6351       | Blue   |
| E6350       | Gray   |
| E6351       | Blue   |
| E6352       | Red    |
| E6353       | Green  |
| E6361       | Black  |
| E6362       | Yellow |
| E6339       | Orange |
| E6336       | Brown  |
| E6349       | Purple |

### Contacts

| Part Number | Description     | Wire AWG | sq. mm |
|-------------|-----------------|----------|--------|
| 6354        | Contact set (2) | 2/0      | 67.4   |
| 6355        | Contact set (2) | 3/0      | 85.0   |
| 6356        | Contact set (2) | 4/0      | 107.2  |
| 6394        | Contact set (2) |          | 35.0   |
| 1341G1      | DIN standard    |          | 50.0   |
| 1341G2      | DIN standard    |          | 70.0   |
| 1341G3      | DIN standard    |          | 95.0   |

### Bushings

| Part Number | Description                              | Wire AWG   | sq. mm        |
|-------------|------------------------------------------|------------|---------------|
| 5687        | For use with 6354 contact & 5918 bushing | 1/0 to #1  | 53.5 to 42.41 |
| 5690        | For use with 6354 contact & 5918 bushing | 1/0 to #2  | 53.5 to 33.62 |
| 5693        | For use with 6354 contact & 5918 bushing | 1/0 to #4  | 53.5 to 21.15 |
| 5663        | For use with 6354 contact & 5918 bushing | 1/0 to #6  | 53.5 to 13.30 |
| 5648        | For use with 6354 contact & 5918 bushing | 1/0 to #10 | 53.5 to 5.26  |
| 5918        | For use with 6354 contact                | 2/0 to 1/0 | 67.43 to 53.5 |
| 5920        | For use with 6394 contact                |            | 35 to 16mm    |

### Accessories

| Part Number | Description                                                    |
|-------------|----------------------------------------------------------------|
| 6367G1      | Pin & tube kit #16/12 (1.31/3.31mm)-for battery-pin            |
| 6366G2      | Pin & tube kit #16/12 (1.31/3.31mm)-for charger & truck-tube   |
| 6337G1      | Charger key                                                    |
| 995G2       | Handle with hardware "A" frame                                 |
| 993G1       | Manual release-battery bracket with hardware                   |
| 994G1       | Manual release-charger/truck bracket with hardware             |
| 911G2       | Cable clamps-use alone with manual release or "A" frame handle |
| 6305G1      | Auxiliary contact kit with contact part number 1331            |
| 6310G1      | Auxiliary contact kit with contact part number 1332            |

### Tooling

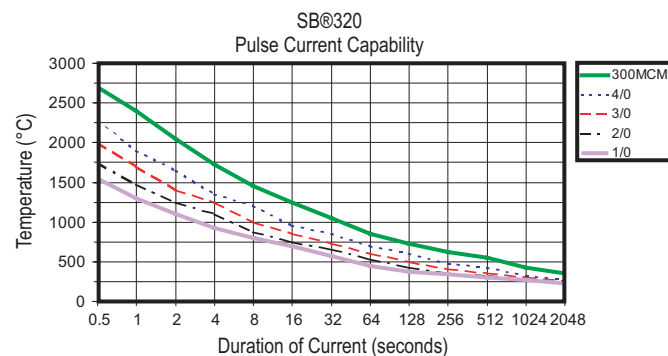
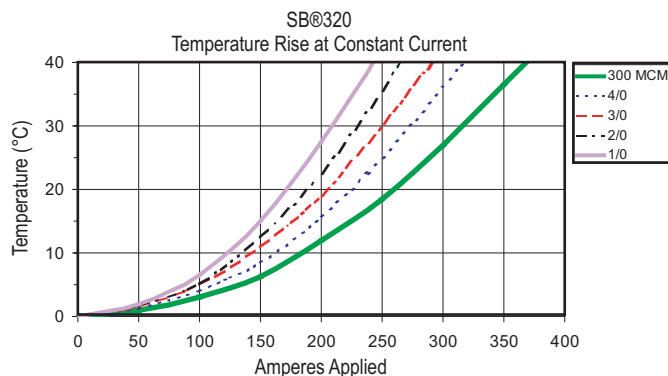
| Part Number | Description                                                 |
|-------------|-------------------------------------------------------------|
| 970P1       | Extraction tool-insulatd handle                             |
| 111038G2    | Contact insertion/extraction tool for auxiliary contact kit |
| 1368        | Hand tool for 1/0 to 95mm (53.5/95)                         |
| 1387G1      | Pneumatic tool                                              |
| 1388G2      | - die for 1/0 to 4/0 (53.5/107.2)                           |
| 1389G2      | - locator for 1/0 to 4/0 (53.5/107.2)                       |

Consult factory for additional tooling information



All Data Subject To Change Without Notice

## TEMPERATURE RISE CHARTS

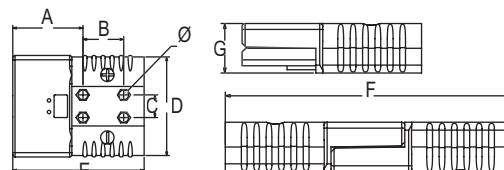


## DIMENSIONS

### SBE® Housing

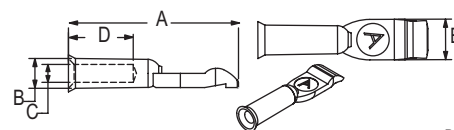
| Series  | -A- mm in. | -B- mm in. | -C- mm in. | -D- mm in. |
|---------|------------|------------|------------|------------|
| SBE®160 | 61.9 2.44  | 28.5 1.13  | 15.9 .63   | 85.7 3.37  |

| Series  | -E- mm in. | -F- mm in. | -G- mm in. |
|---------|------------|------------|------------|
| SBE®160 | 125.4 4.94 | 200.0 7.88 | 33.3 1.31  |



### Contacts

|        | -A- mm in. | -B- mm in. | -C- mm in. | -D- mm in. | -E- mm in. |
|--------|------------|------------|------------|------------|------------|
| 6354   | 78.7 3.10  | 16.3 .64   | 12.4 .49   | 31.8 1.25  | 20.6 .81   |
| 6355   | 78.7 3.10  | 17.9 .70   | 14.7 .58   | 31.8 1.25  | 20.6 .81   |
| 6356   | 78.7 3.10  | 19.1 .75   | 16.3 .64   | 31.8 1.25  | 20.6 .81   |
| 6394   | 77.0 3.03  | 13.0 .51   | 9.5 .38    | 31.8 1.25  | 20.6 .81   |
| 1341G1 | 67.3 2.65  | 14.5 .57   | 10.9 .43   | 18.9 .75   | 20.6 .81   |
| 1341G2 | 66.8 2.63  | 17.3 .68   | 13.0 .51   | 20.1 .79   | 20.6 .81   |
| 1341G3 | 70.9 2.79  | 19.8 .78   | 15.0 .59   | 23.9 .94   | 20.6 .81   |



DS-SBE320 REV01

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