

Anderson Power Products' family of Euro Battery Connectors (EBC) exceeds all the requirements of DIN 43589-1 and EN 1175-1. The connector design incorporates an innovative, cost effective contact carrier for ease of assembly.

The connectors have a Degree of Protection of IP23 per IEC 60529. The acid resistance and temperature range of the PBT-PC housing exceeds the requirements of EN 1175-1. Contacts are pure copper with silver plate for maximum conductivity.

All materials meet RoHS requirements and are selected to ensure years of reliable service under adverse battery environments.

### Features

- Sturdy Advanced Polymer Housings**

*PBT-PC alloy housings provides superior resistance to acids and temperature extremes*

- DIN 43589-1 Voltage Keying**

*Dry-cell, wet-cell & universal keying plugs coded for 24 / 36 / 48 / 72 / 80 & 96 volts DC*

- Mating Compatibility with Connectors of Other Manufacturers**

*APP "E" series connectors offer dimensional compatibility for air tube and auxiliary contacts over and above the DIN 43589-1 compatibility of housings and main contacts*



- Silver Plated Pure Copper Contacts**

*For lowest voltage drop and superior performance*

## SPECIFICATIONS

| Electrical                                    |  |                       | Mechanical                                    |  |                            |
|-----------------------------------------------|--|-----------------------|-----------------------------------------------|--|----------------------------|
| Current Rating (Amperes) *                    |  |                       | Life                                          |  |                            |
| UL                                            |  | 340                   | a. No Load (mating cycles)                    |  | >5000                      |
| EN1175-1:1998                                 |  | 300                   | b. Under Load (Hot Plug 5 mating cycles @96V) |  | 800A                       |
| CSA                                           |  | 260                   |                                               |  |                            |
| Voltage Rating                                |  |                       | Average Mating / Unmating Force (lbf)         |  | 12                         |
| UL / CSA                                      |  | 600                   | (N)                                           |  | 53                         |
| EN1175-1:1998                                 |  | 150                   | Degree of Protection                          |  | IP23                       |
| Wire Range                                    |  |                       | Acid Resistance                               |  | 1.38g / cm <sup>3</sup>    |
| - Power Contacts - AWG (mm <sup>2</sup> )     |  | #1/0 to 4/0 (50 / 95) | Contact Retention - minimum (lbf)             |  | 100                        |
| - Auxiliary Contacts - AWG (mm <sup>2</sup> ) |  | #12 to #10 (4 / 6)    | (N)                                           |  | 445                        |
| Dielectric Withstanding Voltage (AC)          |  | 2,200                 | Air Tube Rating                               |  | 2 bar                      |
| Average Contact Resistance (micro-ohms)       |  | 30                    |                                               |  |                            |
| Operating Temperature (°C)                    |  | -25° to 75°           |                                               |  |                            |
| (°F)                                          |  | -13° to 167°          |                                               |  |                            |
|                                               |  |                       | Materials                                     |  |                            |
|                                               |  |                       | Housing                                       |  | PBT/PC blend               |
|                                               |  |                       | Contacts                                      |  | Copper alloy, silver plate |
|                                               |  |                       | Hardware                                      |  | Steel, zinc chromate plate |

\* Current derating curves must be observed as current capacity will vary dependent on wire cross section and ambient temperature. Maximum current carrying capacity is measured at 40°C / 104°F using the maximum wire cross section permissible, crimped to contacts using APP recommended tooling.

## ORDERING INFORMATION

### Connector Part Number Selection

| Series | Gender                        | Main Contact | Handle | Coding Key          | Auxiliary Contacts & Air Tubes                                | Packaging    |
|--------|-------------------------------|--------------|--------|---------------------|---------------------------------------------------------------|--------------|
| E32 ** | 5                             | 50           | - 1    | 0                   | 2                                                             | 9            |
| 5      | Socket                        |              |        |                     |                                                               | 9 Individual |
| 00     | None - Order Separately       |              |        |                     | 0 None                                                        | 8 Bulk       |
| 50     | 50 mm <sup>2</sup> / #1/0 AWG |              |        |                     | 1 (2) Lower Auxiliary Contacts                                |              |
| 70     | 70 mm <sup>2</sup> / #2/0 AWG |              |        |                     | 2 (2) Upper Auxiliary Contacts                                |              |
| 95     | 95 mm <sup>2</sup> / #3/0 AWG |              |        |                     | 4 (2) Lower Auxiliary Contacts & (2) Upper Auxiliary Contacts |              |
| 0      | No                            |              |        | 0 Grey, Wet Cell    | 5 Air Tube                                                    |              |
| 1      | Black                         |              |        | 2 Green, Dry Cel    | 6 Air Tube & (2) Upper Auxiliary Contacts                     |              |
|        |                               |              |        | 3 Yellow, Universal |                                                               |              |

### Accessories

| Part Number | Description                                   |
|-------------|-----------------------------------------------|
| E320-21     | Twin air tube                                 |
| E16-89      | Handle kit - low profile                      |
| E32-89      | Handle kit - high profile                     |
| A320LP-MK   | Latch plate for mating side                   |
| A320HL-MK   | Handle with latch & hardware                  |
| 994G4       | Manual release bracket & handle               |
| 993G4       | Manual release mounting plate for mating half |

\*\* A supplemental auxiliary holder will ship with each pair of contacts.

## ORDERING INFORMATION

### Tooling

Part

Number Description

1387G3 Hydraulic tool for power contacts

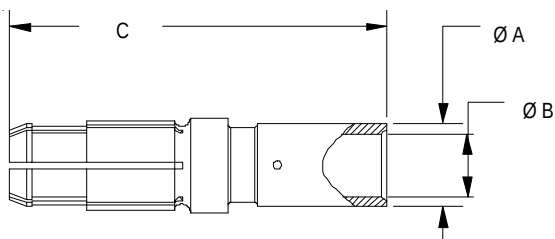
E160-36 Extraction tool

Note: For tooling die information, see tooling chart on website.

## DIMENSIONS

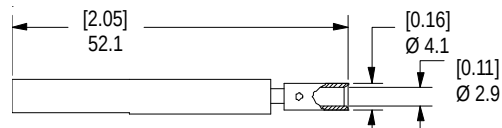
### Socket Contact

| Part Number | - Wire -<br>mm <sup>2</sup> AWG | - Ø A -<br>mm in. | - Ø B -<br>mm in. | - C -<br>mm in. |
|-------------|---------------------------------|-------------------|-------------------|-----------------|
| 320-1150    | 50 #1/0                         | 14.5 0.57         | 11.0 0.43         | 65.5 2.58       |
| 320-1170    | 70 #2/0                         | 17.0 0.67         | 13.0 0.51         | 65.5 2.58       |
| 320-1195    | 95 #3/0                         | 19.8 0.78         | 15.0 0.59         | 70.5 2.78       |



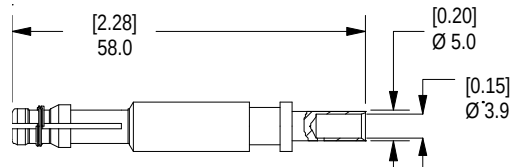
### Upper Auxiliary Contact

E320-35 upper auxiliary contact for 4 mm<sup>2</sup> (#12 AWG)

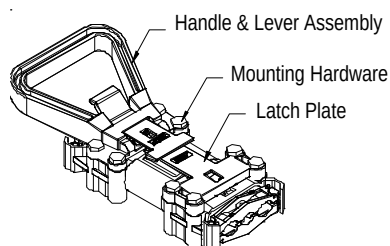


### Lower Auxiliary Contact

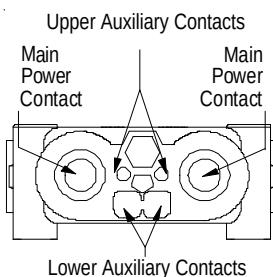
160-13 lower auxiliary contact for 6 mm<sup>2</sup> (#10 AWG)



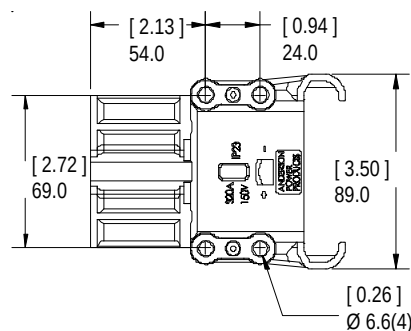
### Handle / Lever Assembly / Latch



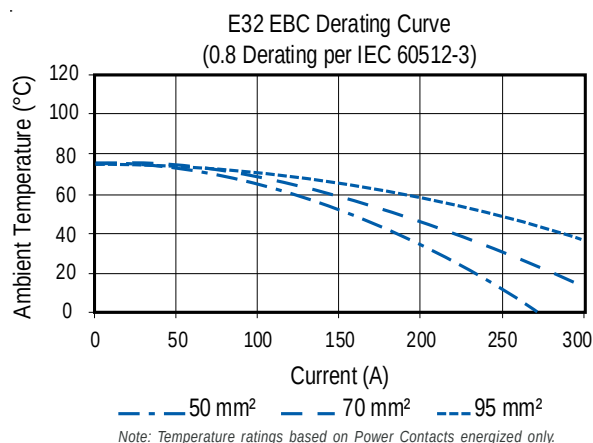
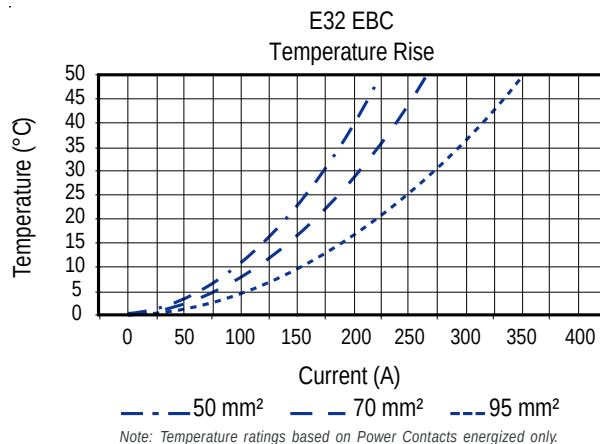
### Housing Front View



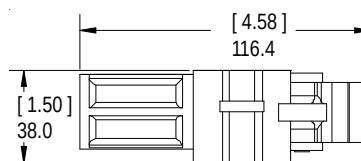
### Housing Top View



## TEMPERATURE CHARTS



### Housing Side View



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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

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