

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 | Average Mating / Unmating Force (lbf) | 12 |
| Voltage Rating | | (N) | 53 |
| UL / CSA | 600 | Degree of Protection | IP23 |
| EN1175-1:1998 | 150 | Acid Resistance | 1.38g / cm ³ |
| Wire Range | | Contact Retention - minimum (lbf) | 100 |
| - Power Contacts - AWG (mm ²) | #1/0 to 4/0 (50 / 95) | (N) | 445 |
| - Auxiliary Contacts - AWG (mm ²) | #12 to #10 (4 / 6) | Air Tube Rating | 2 bar |
| Dielectric Withstanding Voltage (AC) | 2,200 | Materials | |
| Average Contact Resistance (micro-ohms) | 30 | Housing | PBT/PC blend |
| Operating Temperature (°C) | -25° to 75° | Contacts | Copper alloy, silver plate |
| (°F) | -13° to 167° | 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 | 4 | 50 | - 1 | 0 | 2 | 9 |
| 4 | Plug | | | | | 9 Individual |
| 00 | None - Order Separately | | | | 0 None | 8 Bulk |
| 50 | 50 mm ² / #1/0 AWG | | | | 1 (2) Lower Auxiliary Contacts | |
| 70 | 70 mm ² / #2/0 AWG | | | | 2 (2) Upper Auxiliary Contacts | |
| 95 | 95 mm ² / #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 |
|-------------|---|
| E320-20 | 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 |

ORDERING INFORMATION

Tooling

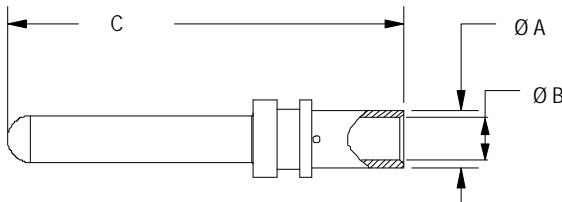
| Part Number | Description |
|-------------|-----------------------------------|
| 1387G3 | Hydraulic tool for power contacts |
| E160-36 | Extraction tool |

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

DIMENSIONS

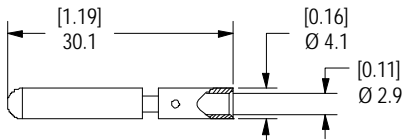
Pin Contact

| Part Number | - Wire - | | - ØA - | | - ØB - | | - C - | |
|-------------|-----------------|------|--------|------|--------|------|-------|------|
| | mm ² | AWG | mm | in. | mm | in. | mm | in. |
| 320-1050 | 50 | #1/0 | 14.5 | 0.57 | 11.0 | 0.43 | 65.5 | 2.58 |
| 320-1070 | 70 | #2/0 | 17.0 | 0.67 | 13.0 | 0.51 | 65.5 | 2.58 |
| 320-1095 | 95 | #3/0 | 19.8 | 0.78 | 15.0 | 0.59 | 70.5 | 2.78 |



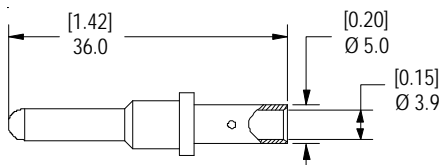
Upper Auxiliary Contact

E320-34 upper auxiliary contact for 4 mm² (#12 AWG)

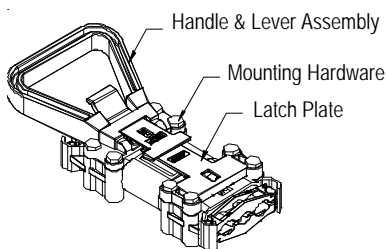


Lower Auxiliary Contact

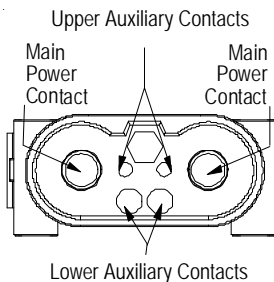
160-12 lower auxiliary contact for 6 mm² (#10 AWG)



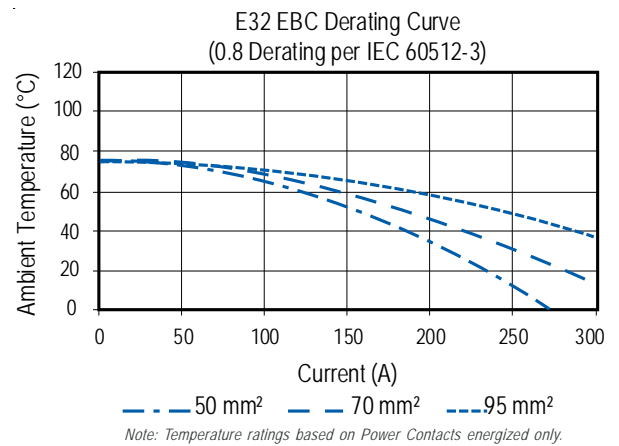
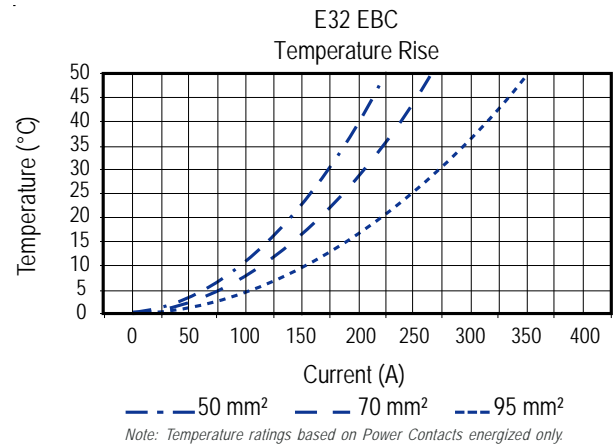
Handle / Lever Assembly / Latch



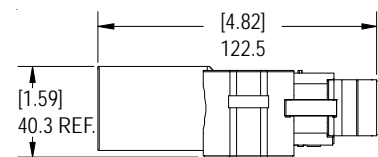
Housing Front View



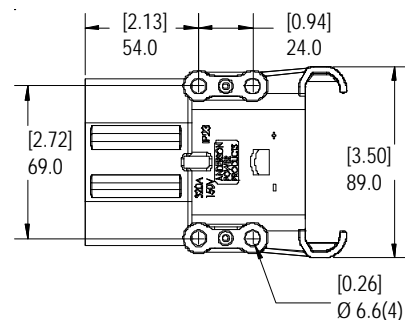
TEMPERATURE CHARTS



Housing Side View



Housing Top View



Mouser Electronics

Authorized Distributor

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Anderson Power Products:

[320-1070](#) [320-1095](#) [E320-34](#) [E320-35](#) [E32400-0009](#) [E32400-1009](#) [E32450-0008](#) [E32450-0009](#) [E32450-0019](#)
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