

An **IDEAL** Company

EBC Connectors

E32 Female DIN 43589-1

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 Resistence | 1.38g / cm ³ | | |
| - Power Contacts - AWG (mm²) | #1/0 to 4/0 (50 / 95) | Contact Retention - minimum (lbf) | 100 | | |
| - Auxiliary Contacts - AWG (mm²) | #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° | Materials | | | |
| (°F) | -13° to 167° | 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 Main Coding Auxiliary Contacts | | | | | | | | | | | | |
|---|----------------------------|--------|---------|---|-------|-----------------|----------------------------------|------------------------------|---|--------------|--|--|
| Sei | ries | Gender | Contact | Н | andle | | Coding Key | | Air Tubes | Packaging | | |
| E3: | 2 ** | 5 | 50 | - | 1 | | 0 | | 2 | 9 | | |
| 5 | Socke | et | | | | | | | | 9 Individual | | |
| 00 | 00 None - Order Separately | | | | | | 0 | None | 8 Bulk | | | |
| 50 50 mm² / #1/0 AWG | | | | | | 1 | 1 (2) Lower Auxiliary Contacts | | | | | |
| 70 70 mm² / #2/0 AWG | | | | | | 2 | 2 (2) Upper Auxiliary Contacts | | | | | |
| 95 | 95 95 mm² / #3/0 AWG | | | | | 4 | 4 (2) Lower Auxiliary Contacts & | | | | | |
| 0 | 0 No | | | | 0 | Grey, Wet Cell | | (2) Upper Auxiliary Contacts | | | | |
| 1 | 1 Black | | | | 2 | Green, Dry Cell | 5 | 5 Air Tube | | | | |
| | | | | | | 3 | Yellow, Universal | 6 | 6 Air Tube & (2) Upper Auxiliary Contacts | | | |

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.

E32 Female DIN 43589-1

ORDERING INFORMATION

Tooling

Part

Number Description

1387G3 Hydraulic tool for power contacts

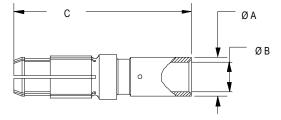
E160-36 Extraction tool

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

DIMENSIONS

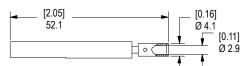
Socket Contact

| Part - Wire - | | - 101 | 4 - | - Ø | В- | - C - | | |
|---------------|-----|-------|------|------|------|-------|------|------|
| Number | mm² | AWG | mm | in. | mm | in. | mm | in. |
| 320-1150 | 50 | #1/0 | 14.5 | 0.57 | 11.0 | 0.43 | 64.5 | 2.54 |
| 320-1170 | 70 | #2/0 | 17.0 | 0.67 | 13.0 | 0.51 | 64.5 | 2.54 |
| 320-1195 | 95 | #3/0 | 19.8 | 0.78 | 15.0 | 0.59 | 70.5 | 2.78 |



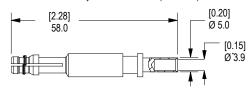
Upper Auxiliary Contact

E320-35 upper auxiliary contact for 4 mm² (#12 AWG)

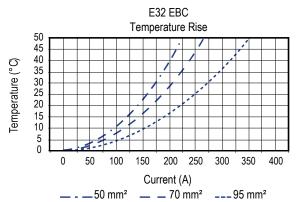


Lower Auxiliary Contact

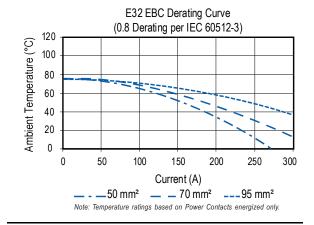
160-13 lower auxiliary contact for 6 mm² (#10 AWG)



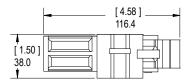
TEMPERATURE CHARTS



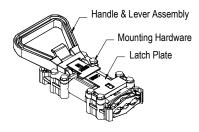
Note: Temperature ratings based on Power Contacts energized only.



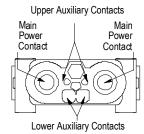
Housing Side View



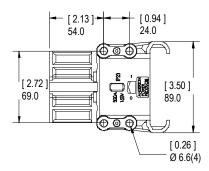
Handle / Lever Assembly / Latch



Housing Front View



Housing Top View





All Data Subject To Change Without Notice

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