

The Anderson Power Products "A" Series Euro Battery Connector (EBC) uses the DIN43589-1 form factor which has been specially configured for North American fast battery charging systems.

Unlike other DIN43589-1 connectors, our "A" Series offers contact and crimp tooling selections developed for both American Wire Gauge and Metric cable. We also offer a broader range of auxiliary wire contacts for communication control applications.

The connector design incorporates an advanced, cost effective contact carrier for ease of assembly and fewer components. All materials are selected to ensure years of reliable service under adverse battery environments.

Features

- **Impact resistant plastic housing**
PA6 (Nylon) housings provide superior impact resistance to stand up to rough usage
- **Up to four auxiliary contacts**
Can be used for battery monitoring and charger communications. Auxiliary contact sizes available from 10AWG to 18AWG.
- **Low mating forces**
Connectors can be mated and unmated without the necessity of added hardware
- **Hexagonal voltage key for 24V, 36V, 48V, 72V, 80V, or 96V**
Key prevents mating of different operating voltages



Note: Will not mate with "E" Series Housings

SPECIFICATIONS

| Electrical | | Mechanical | |
|--|------------------------|---|----------------------------|
| Current Rating (Amperes) * | 140 | Life | |
| Voltage Rating | 600 | a. No Load (mating cycles) | >5000 |
| Wire Range | | b. Under Load (Hot Plug 5 mating cycles @96V) | 200A |
| - Power Contacts - AWG (mm ²) | #8 to #2 (10 / 35) | Mating / Unmating Force (lbf) | 12 |
| - Auxiliary Contacts - AWG (mm ²) | #18 to #14 (1.5 / 2.5) | (N) | 53 |
| Dielectric Withstanding Voltage (AC) | 2,200 | Degree of Protection | IP23 |
| Average Contact Resistance (micro-ohms) | 65 | Acid Resistance | 1.10g / cm ³ |
| Operating Temperature (°C) | -25° to 105° | Contact Retention (lbf) | 100 |
| (°F) | -13° to 221° | (N) | 445 |
| * 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. | | Materials | |
| | | Housing | PA6 (Nylon) glass filled |
| | | Contacts | Copper alloy, silver plate |
| | | Hardware | Steel, zinc chromate plate |

ORDERING INFORMATION

Connector Part Number Selection

| Series | Gender | Main Contact | Handle | Coding Key | Auxiliary Contacts | Packaging | |
|--------|-----------------------------|--------------|--------|------------|--------------------|---|--------------|
| A80 | 5 | 25 | - | 1 | 0 | B | 9 |
| 5 | Socket | | | | | | 9 Individual |
| 00 | None - Order Separately | | | | 0 | None | 8 Bulk |
| 10 | #8 AWG / 10 mm ² | | | | A | (2) Lower Auxiliary Contacts | |
| 16 | #6 AWG / 16 mm ² | | | | B | (2) Upper Auxiliary Contacts | |
| 25 | #4 AWG / 25 mm ² | | | | C | (2) Lower Auxiliary Contacts & (2) Upper Auxiliary Contacts | |
| 35 | #2 AWG / 35 mm ² | | | | | | |
| 0 | No | | | 0 | Grey, Wet Cell | | |
| 1 | Black | | | 2 | Green, Dry Cell | | |
| 2 | Red | | | 3 | Yellow, Universal | | |

Accessories

| Part Number | Description |
|-------------|-------------|
| 80-89 | Handle kit |

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www.andersonpower.com

ORDERING INFORMATION

Tooling

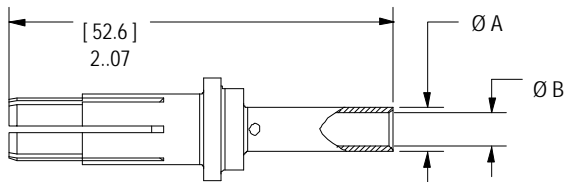
| Part Number | Description |
|-------------|-----------------------------------|
| 1387G3 | Hydraulic tool for power contacts |
| E160-36 | Extraction tool |

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

DIMENSIONS

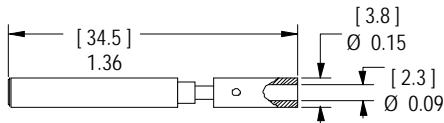
Socket Contact

| Part Number | - Wire - | | - Ø A - | | - Ø B - | |
|-------------|----------|-----------------|---------|------|---------|-----|
| | AWG | mm ² | in. | mm | in. | mm |
| 80-1110 | #8 | 10 | 0.24 | 6.1 | 0.18 | 4.6 |
| 80-1116 | #6 | 16 | 0.33 | 8.4 | 0.24 | 6.1 |
| 80-1125 | #4 | 25 | 0.43 | 10.9 | 0.31 | 7.9 |
| 80-1135 | #2 | 35 | 0.49 | 12.4 | 0.35 | 8.9 |



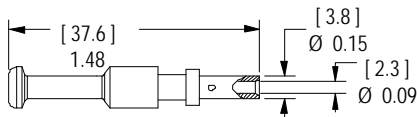
Upper Auxiliary Contact

E80-33 upper auxiliary contact for #18 / 14 AWG or (1.5 / 2.5 mm² wire)

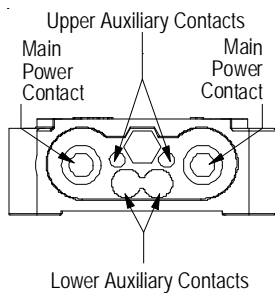


Lower Auxiliary Contact

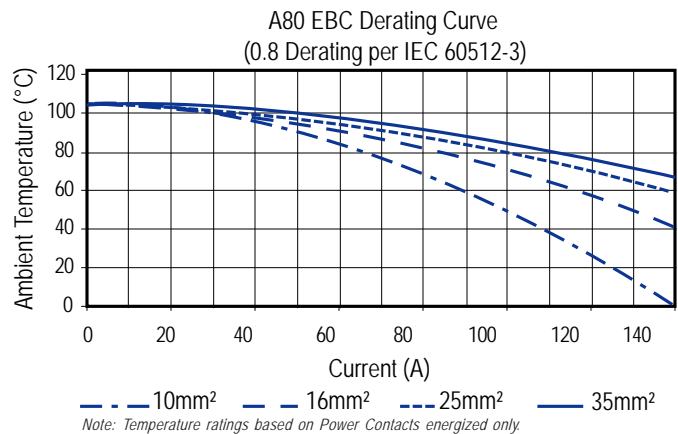
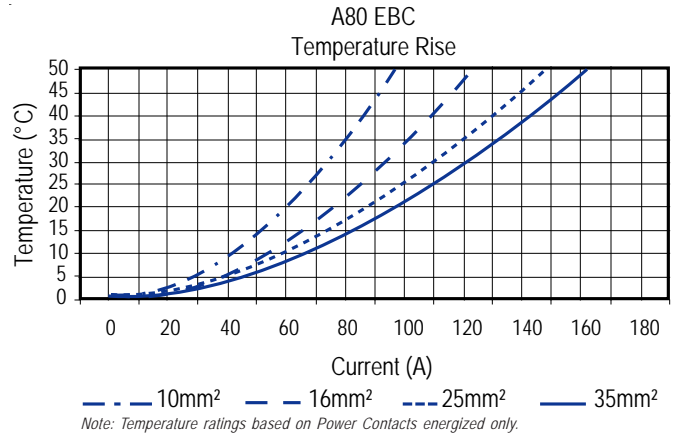
E80-31 lower auxiliary contact for #18 / 14 AWG or (1.5 / 2.5 mm² wire)



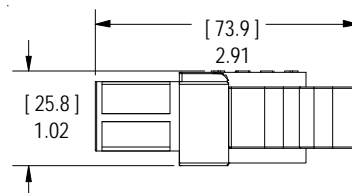
Housing Front View



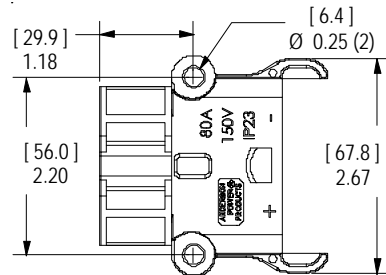
TEMPERATURE CHARTS



Housing Side View



Housing Top View



All Data Subject To Change Without Notice

DS-A80EBCF REV03

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