

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		220	a. No Load (mating cycles)	>5000
EN1175-1:1998		190	b. Under Load (Hot Plug 5 mating cycles @96V)	400A
CSA		160		
Voltage Rating			Average Mating / Unmating Force (lbf)	
UL / CSA		600	(N)	12
EN1175-1:1998		150		53
Wire Range			Degree of Protection	
- Power Contacts - AWG (mm ²)		#6 to 1/0 (16 / 50)	IP23	
- Auxiliary Contacts - AWG (mm ²)		#12 to #10 (4 / 6)	Acid Resistance	
Dielectric Withstanding Voltage (AC)			1.38g / cm ³	
Average Contact Resistance (micro-ohms)			Contact Retention - minimum (lbf)	
Operating Temperature (°C)			100	
(°F)			(N)	
			445	
			Air Tube Rating	
			2 bar	
			Materials	
			Housing	
			PBT/PC blend, glass filled	
			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
E16 **	5	25	-	1	0	2
5	Socket					9 Individual
00	None - Order Separately				0 None	8 Bulk
16	16 mm ² / #6 AWG				1 (2) Lower Auxiliary Contacts	
25	25 mm ² / #4 AWG				2 (2) Upper Auxiliary Contacts	
35	35 mm ² / #2 AWG				4 (2) Lower Auxiliary Contacts & (2) Upper Auxiliary Contacts	
50	50 mm ² / #1/0 AWG			0 Grey, Wet Cell	5 Air Tube	
0	No			2 Green, Dry Cel	6 Air Tube & (2) Upper Auxiliary Contacts	
1	Black			3 Yellow, Universal		

Accessories

Part Number	Description
E160-21	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

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

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www.andersonpower.com

ORDERING INFORMATION

Tooling

Part

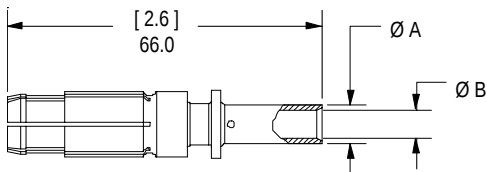
Number	Description
1387G3	Hydraulic tool for power contacts
E160-36	Extraction tool

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

DIMENSIONS

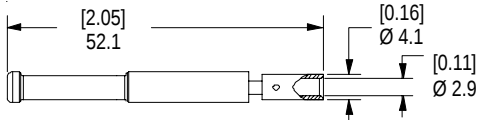
Pin Contact

Part Number	- Wire - mm ² AWG	- ØA - mm in.	- ØB - mm in.
160-1116	16 #6	8.4 0.33	6.0 0.24
160-1125	25 #4	11.0 0.43	8.0 0.31
160-1135	35 #2	12.5 0.49	9.0 0.35
160-1150	50 #1/0	14.5 0.57	11.0 0.43



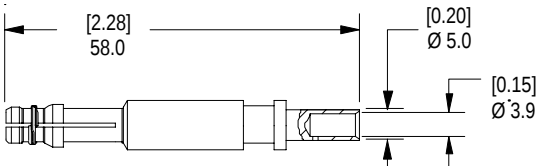
Upper Auxiliary Contact

E160-33 upper auxiliary contact for 4 mm² (#12 AWG)

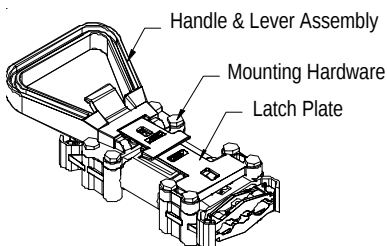


Lower Auxiliary Contact

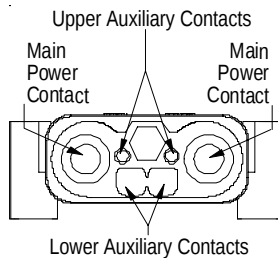
160-13 lower auxiliary contact for 6 mm² (#10 AWG)



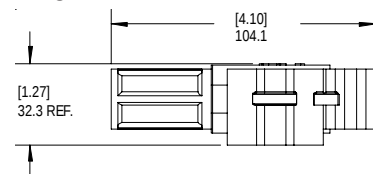
Handle / Lever Assembly / Latch



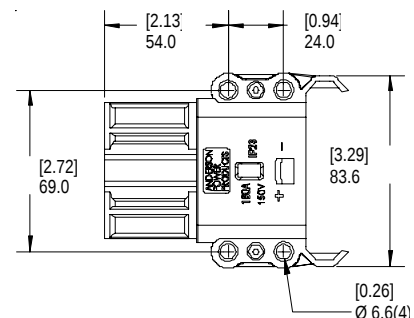
Housing Front View



Housing Side View



Housing Top View



TEMPERATURE CHARTS

