

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	Average Mating / Unmating Force (lbf)		
Voltage Rating			(N)		
UL / CSA		600	Degree of Protection		
EN1175-1:1998		150	IP23		
Wire Range			Acid Resistance		
- Power Contacts - AWG (mm ²)		#6 to 1/0 (16 / 50)	1.38g / cm ³		
- Auxiliary Contacts - AWG (mm ²)		#12 to #10 (4 / 6)	Contact Retention - minimum (lbf)		
Dielectric Withstanding Voltage (AC)			(N)		
Average Contact Resistance (micro-ohms)			100		
Operating Temperature (°C)			445		
(°F)			2 bar		
			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

				Main Contact	Handle	Coding Key	Auxiliary Contacts & Air Tubes	Packaging	
Series	Gender								
E16	4	25	-	1		0	2	9	
4	Plug							9 Individual	
00	None - Order Separately						0	None	8 Bulk
16	16 mm² / #6 AWG						1	(2) Lower Auxiliary Contacts	
25	25 mm² / #4 AWG						2	(2) Upper Auxiliary Contacts	
35	35 mm² / #2 AWG						4	(2) Lower Auxiliary Contacts &	
50	50 mm² / #1/0 AWG							(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
E160-20	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

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www.andersonpower.com

ORDERING INFORMATION

Tooling

Part

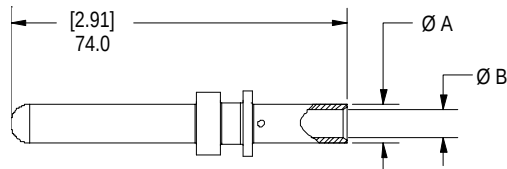
Number	Description
1387G3	Hydraulic tool for power contacts
E160-36	Extraction tool

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

DIMENSIONS

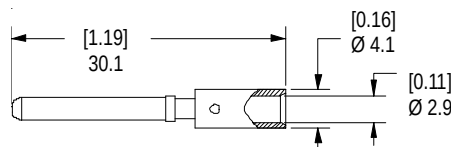
Pin Contact

Part AWG	- Wire - mm in.	- Ø A - mm in.	- Ø B - mm in.	Number mm ²
160-1016	16 #6	8.4 0.33	6.0 0.24	
160-1025	25 #4	11.0 0.43	8.0 0.31	
160-1035	35 #2	12.5 0.49	9.0 0.35	
160-1050	50 #1/0	14.5 0.57	11.0 0.43	



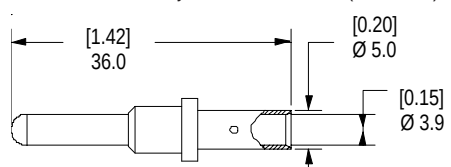
Upper Auxiliary Contact

E160-32 upper auxiliary contact for 4 mm² (#12 AWG)

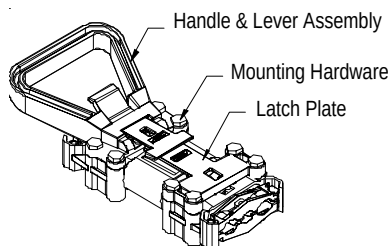


Lower Auxiliary Contact

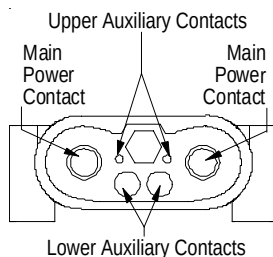
160-12 lower auxiliary contact for 6 mm² (#10 AWG)



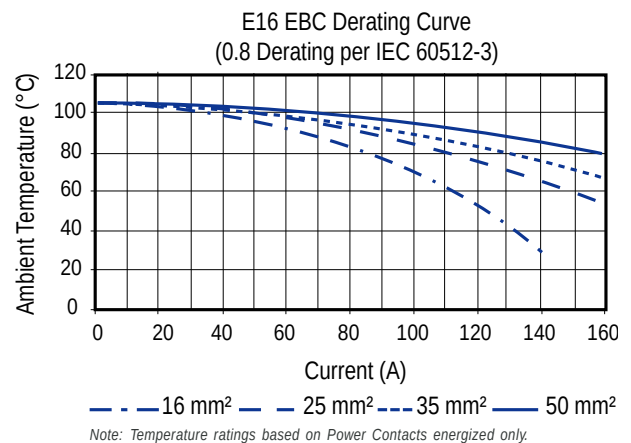
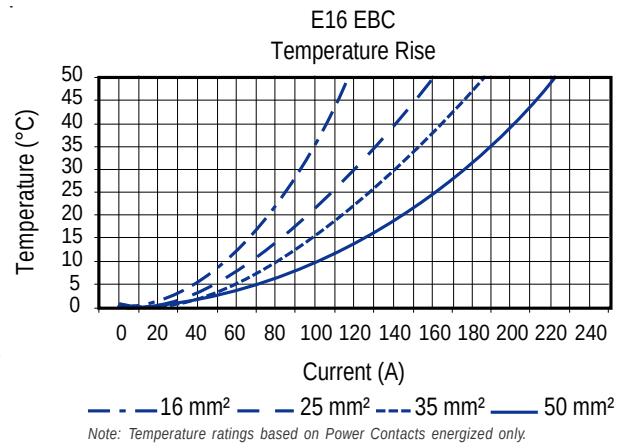
Handle / Lever Assembly / Latch



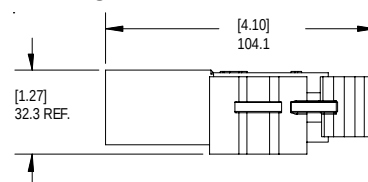
Housing Front View



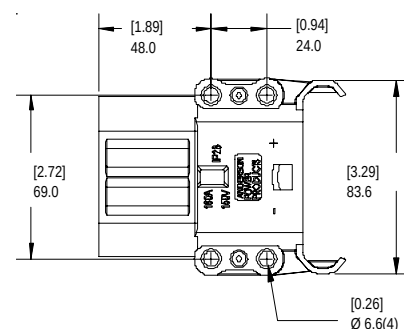
TEMPERATURE CHARTS



Housing Side View



Housing Top View



Mouser Electronics

Authorized Distributor

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Anderson Power Products:

[160-1016](#) [160-1025](#) [160-1035](#) [160-1050](#) [160-15](#) [160-17](#) [160-19](#) [160-8](#) [E160-20](#) [E160-21](#) [E160-32](#) [E160-33](#)
[E160-89](#) [16-89](#)