

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)	
UL / CSA		600		(N)	12
EN1175-1:1998		150			53
Wire Range				Degree of Protection	
- Power Contacts - AWG (mm ²)		#1/0 to 4/0 (50 / 95)		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)				(N)	100
(°F)					445
				Air Tube Rating	
					2 bar
				Materials	
				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

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 mm² / #1/0 AWG					1	(2) Lower Auxiliary Contacts	
70	70 mm² / #2/0 AWG					2	(2) Upper Auxiliary Contacts	
95	95 mm² / #3/0 AWG					4	(2) Lower Auxiliary Contacts & (2) Upper Auxiliary Contacts	
0	No				0	Grey, Wet Cell		
1	Black				2	Green, Dry Cel		
					3	Yellow, Universal		
						6	Air Tube & (2) Upper Auxiliary Contacts	

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

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www.andersonpower.com

ORDERING INFORMATION

Tooling

Part

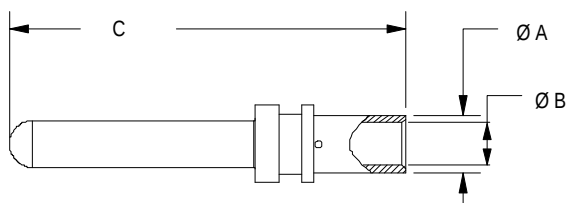
Number	Description
1387G3	Hydraulic tool for power contacts
E160-36	Extraction tool

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

DIMENSIONS

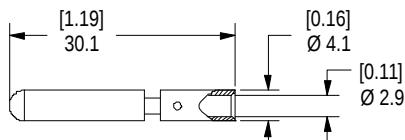
Pin Contact

Part Number	- Wire - mm ² AWG	- ØA - mm in.	- ØB - mm in.	- C - 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



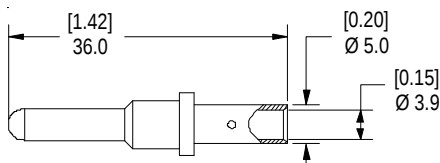
Upper Auxiliary Contact

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

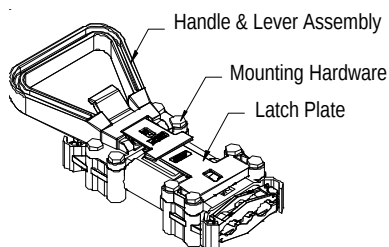


Lower Auxiliary Contact

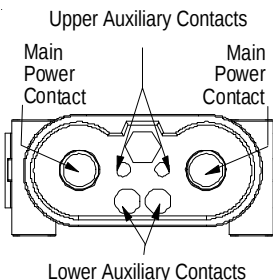
160-12 lower auxiliary contact for 6 mm² (#10 AWG)



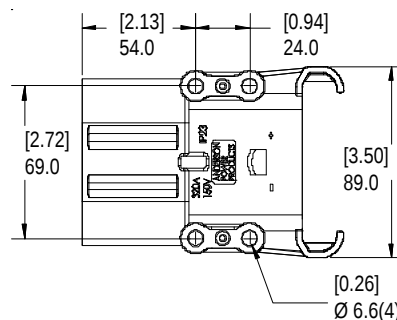
Handle / Lever Assembly / Latch



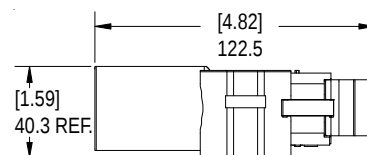
Housing Front View



Housing Top View



Housing Side View



TEMPERATURE CHARTS

