

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 (mm²)		#1/0 to 4/0 (50 / 95)	IP23	
- Auxiliary Contacts - AWG (mm²)		#12 to #10 (4 / 6)	Acid Resistance	
Dielectric Withstanding Voltage (AC)			1.38g / cm³	
Average Contact Resistance (micro-ohms)			Contact Retention - minimum (lbf)	
Operating Temperature (°C)			(N)	100
(°F)				445
		-25° to 75°	Air Tube Rating	
		-13° to 167°	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 **	5	50	- 1	0	2	9
5	Socket					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	5 Air Tube	
1	Black			2 Green, Dry Cell	6 Air Tube & (2) Upper Auxiliary Contacts	
				3 Yellow, Universal		

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

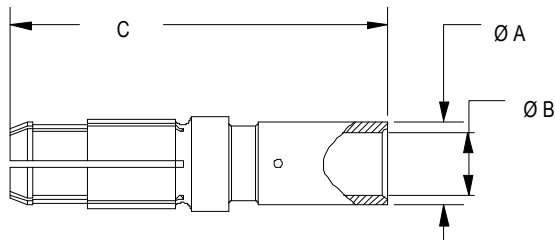
E160-36 Extraction tool

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

DIMENSIONS

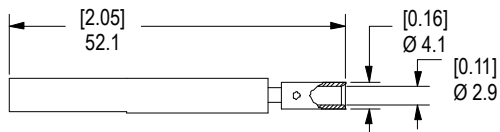
Socket Contact

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



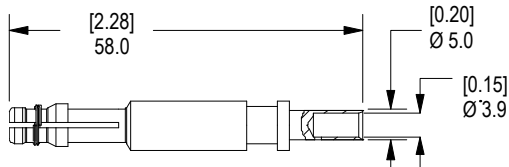
Upper Auxiliary Contact

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

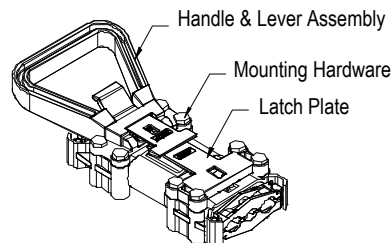


Lower Auxiliary Contact

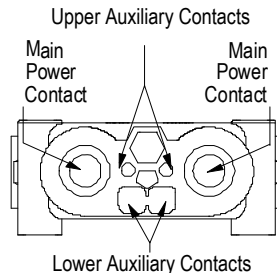
160-13 lower auxiliary contact for 6 mm² (#10 AWG)



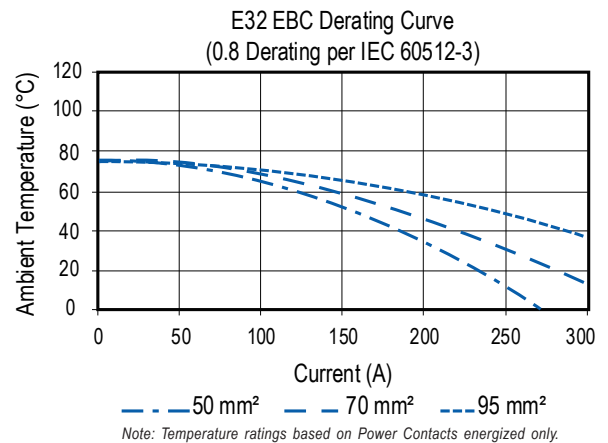
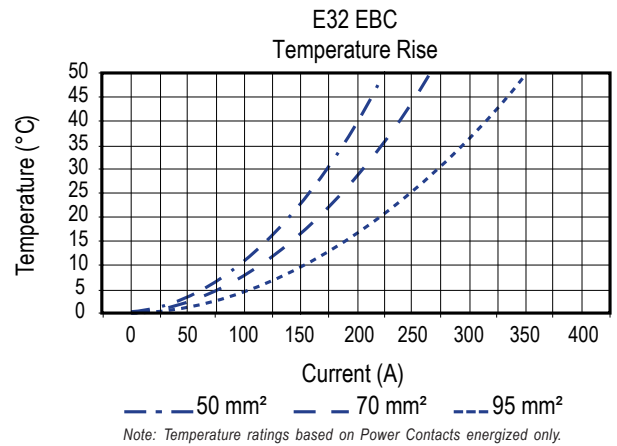
Handle / Lever Assembly / Latch



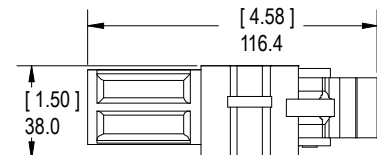
Housing Front View



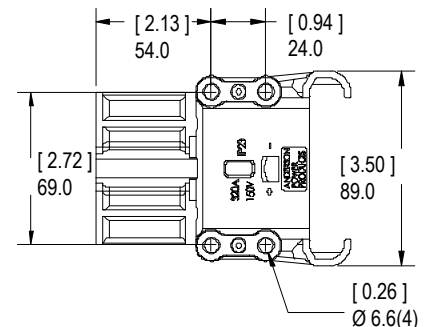
TEMPERATURE CHARTS



Housing Side View



Housing Top View



Mouser Electronics

Authorized Distributor

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[E32404-1049](#) [E32550-1069](#)