

EBC Connectors

E32 Female DIN 43589-1

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)		12
UL / CSA		600	(N)		53
EN1175-1:1998		150	Degree of Protection		IP23
Wire Range			Acid Resistance		1.38g / cm³
- Power Contacts - AWG (mm²)		#1/0 to 4/0 (50 / 95)	Contact Retention - minimum (lbf)		100
- Auxiliary Contacts - AWG (mm²)		#12 to #10 (4 / 6)	(N)		445
Dielectric Withstanding Voltage (AC)		2,200	Air Tube Rating		2 bar
Average Contact Resistance (micro-ohms)		30			
Operating Temperature (°C)		-25° to 105°			
(°F)		-13° to 221°			
			Materials		
			Housing		PA6 (Nylon) 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
E32 **	5	50	- 1	0	2	9
5	Socket					9 Individual
00	None - Order Separately				0 None	8 Bulk
50	50 mm ² / #1/0 AWG				1 (2) Lower Auxiliary Contacts	
70	70 mm ² / #2/0 AWG				2 (2) Upper Auxiliary Contacts	
95	95 mm ² / #3/0 AWG				4 (2) Lower Auxiliary Contacts &	
0	No		0	Grey, Wet Cell	(2) Upper Auxiliary Contacts	
1	Black		2	Green, Dry Cel	5 Air Tube	
			3	Yellow, Universal	6 Air Tube & (2) Upper Auxiliary Contacts	

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.**

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ORDERING INFORMATION

Tooling

Part

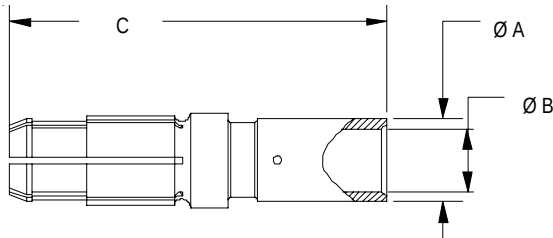
Number	Description
1387G3	Hydraulic tool for power contacts
E160-36	Extraction tool

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

DIMENSIONS

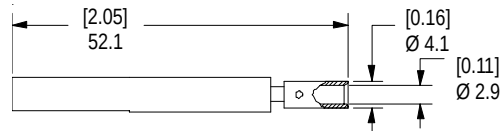
Socket Contact

Part Number	- Wire - mm ² AWG	- Ø A - mm in.	- Ø B - mm in.	- C - mm in.
320-1150	50 #1/0	14.5 0.57	11.0 0.43	65.5 2.58
320-1170	70 #2/0	17.0 0.67	13.0 0.51	65.5 2.58
320-1195	95 #3/0	19.8 0.78	15.0 0.59	70.5 2.78



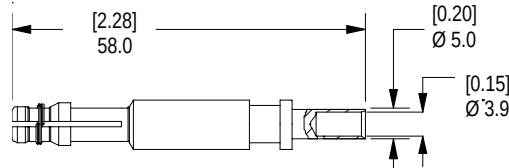
Upper Auxiliary Contact

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

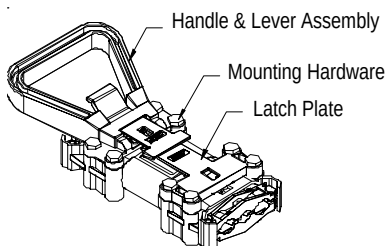


Lower Auxiliary Contact

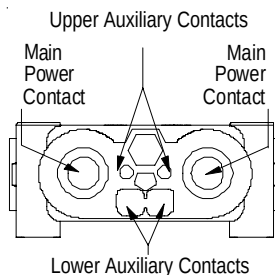
160-13 lower auxiliary contact for 6 mm² (#10 AWG)



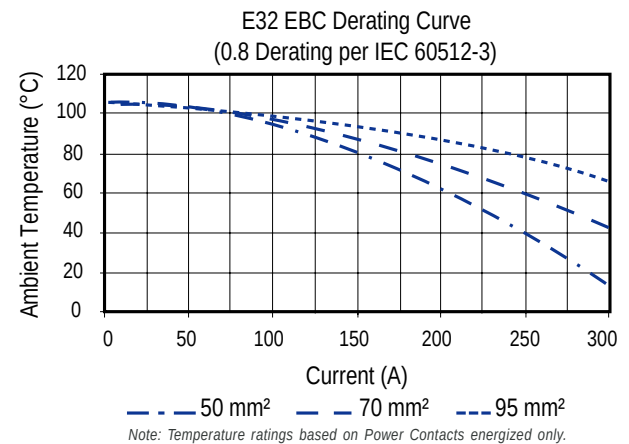
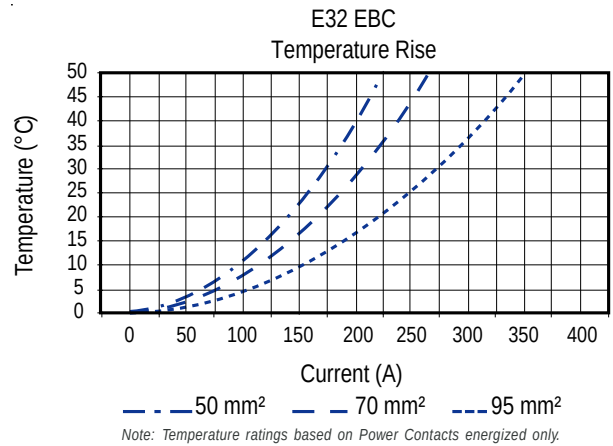
Handle / Lever Assembly / Latch



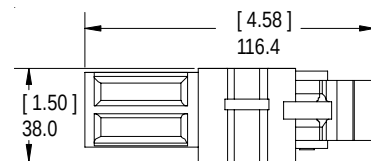
Housing Front View



TEMPERATURE CHARTS



Housing Side View



Housing Top View

