

The SBE 700 connector is the newest member of Anderson Power Products family of genderless quick disconnects connectors. The product is UL listed and certified to meet EPRI Conductive Fast Charge Connector specifications, with a continuous current capacity of 700 amperes. The SBE 700 allows the use of a single connector to meet the tough demands of high current traction battery rapid charging.

Rugged and durable, the connector is capable of 10,000 mating cycles. The SBE 700 connector is keyed and touch safe offering improved user safety. The integrated non-metallic cable clamp further improves user safety by restricting cable insulation creep and increases the ruggedness of the connector/cable assembly. Up to ten optional auxiliary contacts are also available for sensing and communications.

The SBE 700 is designed and manufactured to the same high standards and stringent specifications that have made APP the leader in high power connectors.

## FEATURES

- **700 amp continuous current**

*The SBE 700 eliminates the need for more than one connector to achieve high current charging*

- **Up to ten optional auxiliary contacts**

*Provide sensing and communications circuits for any battery charging/monitoring system*

- **Field replaceable power contacts utilizes industry standard cables**

*Tool removable, crimp contacts use 250 MCM or 4/0 cables eliminating high cost specialty cables*

- **Touch safe, keyed design**

*The connector body prevents inadvertent touching of the main power contacts. Connector specific keying can be ordered to insure only matching connectors can be mated*



## PRODUCT SPECIFICATIONS

Power Contacts		Signal / Auxiliary Contacts	
Number of High Current Contacts	2	Number of Signal/Auxiliary Contacts (Powerpole and/or Pin & Socket)	0 to 10
Contact Barrel Size (AWG or MCM) (flexible Stranded Class I, K, M, Types W or EV)	2 x 4/0 = 600amp 2 x 250MCM = 700 amp	Contact Wire Size (AWG)	10 to 20
UL Current Rating (amperes DC)	700	Contact Wire Size (mm)	4 to .5
Contact to Wire Retention Force	250 pounds	Contact Current Rating ( amperes DC)	30
Life at No Load (Contact Connect/Disconnect Cycles)	10,000	Control pilot delay vs. power contacts (millisecond)	35
Finger proof	UL 1977	Contact housing retention force (lbs.)	25
Complete Unit		Life at No Load (Contact Connect/Disconnect Cycles)	10,000
Voltage Rating (volts DC)	150		
Insulation Withstanding Test Voltage (volts DC)	1300		
Operating Temperature Range °C	-40 to +50		
Temperature Rise at Nominal Load °C	50		
Average Insertion/extraction Force (lbs. with handle)	30		
Flammability Rating of Housing Material	PBT, UL94 HB		

## ORDERING INFORMATION

### Connectors

Part Number	Description
700G1	700A housing, contacts, and clamp
707G1	700A housing, contacts, clamp, and release lever & bracket for battery connector
708G1	700A housing, contacts, clamp, and latch plate for truck/charger connector
709G1	700A housing, contacts, clamp, release lever & bracket for battery connector and auxiliary housing
710G1	700A contacts, clamp, latch plate for truck/charger connector and auxiliary housing

### Components

Part Number	Description
702G1	Housing only
703G1	Auxiliary contact housing only (ten auxiliary connectors and/or spacers needed to fill auxiliary housing)
704G1	Cable Clamp only
705G1	Release lever & bracket for battery connector (mates with 706G1)
706G1	Latch plate for truck/charger connector (mates with 705G1)
6170G1	700A Contact Set
5954	Bushing 4/0 AWG (107.2 mm)

### Powerpole® Auxiliary Connectors

Part Number	Description
1327	Red housing
1327G5	Green housing
1327G6	Black housing
1327G7	White housing
1327G8	Blue housing
1327G16	Yellow housing
1327G17	Orange housing
1327G18	Gray housing
1327G21	Brown housing
1327G22	Pink housing
1327G23	Purple housing
1399G6	Red short spacer without hole
1331	30 amp contact 12/16 AWG (3.3/1.3 mm)
1332	15 amp contact 16/20 AWG (1.3/.52 mm)

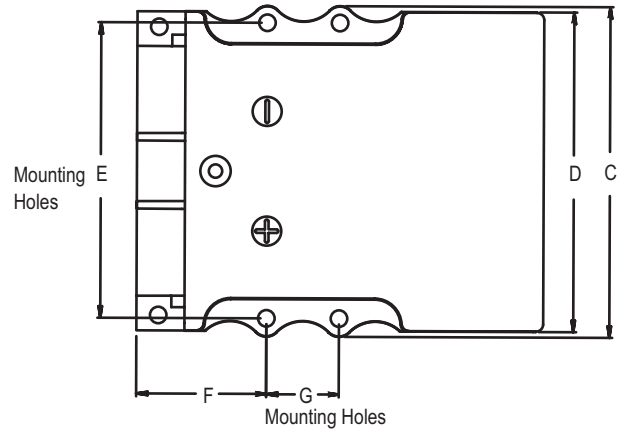
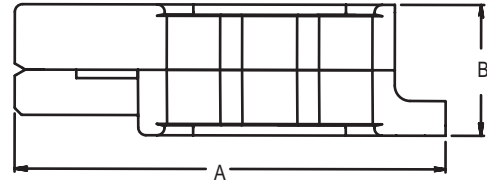
### Tooling

Part Number	Description
Y750	Hydraulic Crimp Tool - FCI Burndy
U34RT	Crimp Die - FCI Burndy

## DIMENSIONS

### Housing

	-A-	-B-	-C-	-D-	-E-	-F-	-G-
inches	7.0	2.13	5.69	5.50	5.09	2.24	1.25
mm	177.8	54.1	144.5	140.0	129.3	56.9	31.8



## TEMPERATURE RISE CHART

