SBE®160 Connector

The innovative SBE® connectors provide cost-effective reliability, design flexibility and safety for your products' manufacture, installation and maintenance.

APP's 2 pole connector is available with a 160 amp rating, 150 Volts continuous AC or DC operation. There are SBE® connectors for many applications and wire sizes, 1/0 or 35 mm. Mechanical keys ensure connectors will only mate with connectors of the same color. Different color housings are selected to identify voltages, thus preventing mismatching of the power supply system.

FEATURES

• Finger Proofing
Helps prevent fingers (or probes) from accidentally touching live contacts. SBE®160 connector meets EN1175 requirements.

• Auxiliary Contacts Kits
Provides ability to incorporate a secondary sensor control circuit

• Optional Air Supply System
Supplies air to battery during charging



PRODUCT SPECIFICATIONS

Connector Model	SBE ®160	Connector Model	SBE ®160
Current Rating (Amperes)*	160*	Life a. No load (Mating cycles)	To 10,000
Voltage Rating (AC/DC)	150*	b. Under Load (Hot Plug 250 mating cycles @ 120V)	75A
Contact Barrel Wire Size (AWG) (mm^2)	1/0 50 or 35	Connect/Disconnect (lbf) (N)	25 111
Maximum Wire Insulation Diameter (inches) (mm)	0.75 19.1	Operating Temperature (°C)** (°F)	-20° to 105° -4° to 221°
Average Contact Resistance* (micro-ohms)	100	Flammability Rating of Housing Material	UL94 V-0
Dielectric Withstanding Voltage (AC/DC)	1,300		
Contact Retention Force (lbf) (N)	300 1,334		

RoHS COMPLIANT APP

** UL Rated for 65°C largest wire or cable size*
*** Contact factory for higher temperature rated connector*

ORDERING INFORMATION

2 Pole Housing, 160 amp Contacts, & 1x2 Powerpole Auxiliary Contact Kit *

Part Number	Housing Color	Wire sq. mm
E6370G2	Gray	35
E6371G2	Blue	35
E6372G2	Orange	35
E6373G2	Yellow	35
E6378G2	Red	35
E6387G2	Green	35
E6388G2	Black	35

2 Pole Housing & Contacts

Part Number	Housing Color	Wire sq. mm
E6374G2	Gray	35
E6375G2	Blue	35
E6376G2	Orange	35
E6377G2	Yellow	35

* Contact factory for ordering packaged parts with the 1x4 auxiliary contact kit.

Note: For additional colors please contact customer service

2 pole housing & contacts continued

Part Number	Housing Color	Wire sq. mm
E6379G2	Red	35
E6391G2	Green	35
E6389G2	Black	35

Housings Only

Part Number	Color
E6380G1	Gray
E6381G1	Blue
E6382G1	Orange
E6383G1	Yellow
E6385G1	Red
E6390G1	Green
E6392G1	Black

Bushings

Part Number	Description	- Wire - AWG	sq. mm
5687	For use with 6384G1	1/0 to #1	50 to 35
5690	For use with 6384G1	1/0 to #2	50 to 25
5693	For use with 6384G1	1/0 to #4	0 to 16
5663	For use with 6384G1	1/0 to #6	0 to 10
5648	For use with 6384G1	1/0 to #10	50 to 4
5920	For use with 6384G2	N/A	35mm to 16mm

Accessories

Part Number	Description
995G1	"A" frame handle with hardware - Gray
993G2	Manual release-battery bracket with hardware
995G3	"A" frame handle with hardware - Red
994G2	Manual release-charger/truck bracket with hardware
945G2	Cable clamps-use alone with manual release or "A" frame handle

1x2 Powerpole Auxiliary Kit
(2) powerpole housing, (2) contacts, and (1) retaining pin
6344 Powerpole Auxiliary Contact Kit - #12 / 16 (2.5 / 1.0)

1x4 Auxiliary Kit
(1) auxiliary housing, (4) auxiliary contacts - two male pins standard length, two female sockets, (1) retention clip and (2) retaining pins
441G1 1x4 auxiliary contact kit - #14 / 16 (1.5 / 1.0)
441G2 1x4 auxiliary contact kit - #16 / 20 (1.0 / 0.5)
441G3 1x4 auxiliary contact kit - #12 (2.5)

1x2 Pin & Socket Auxiliary Kit
6367G1 #14 / 16 (1.5 / 1.0) - pin
6366G2 #14 / 16 (1.5 / 1.0) - socket

HEADQUARTERS: Anderson Power Products®, 13 Pratts Junction Road, Sterling, MA 01564-2305 USA T:978-422-3600 F:978-422-3700
EUROPE: Anderson Power Products® Ltd., Unit 3, Europa Court, Europa Boulevard, Westbrook, Warrington, Cheshire, WA5 7TN United Kingdom T: +44 (0) 1925 428390 F: +44 (0) 1925 520203
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CHINA: IDEAL Anderson Technologies (Shenzhen) Ltd., Block A8 Tantou Western Industrial Park, Songgang Baoan District, Shenzhen, PR. China 518105 T: +(86) 755 2768 2118 F: +(86) 755 2768 2218
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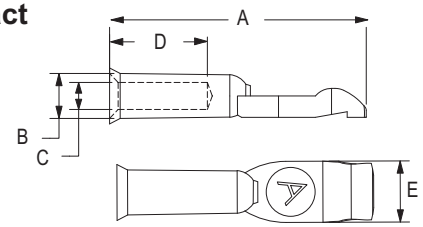
ORDERING INFORMATION

Contacts

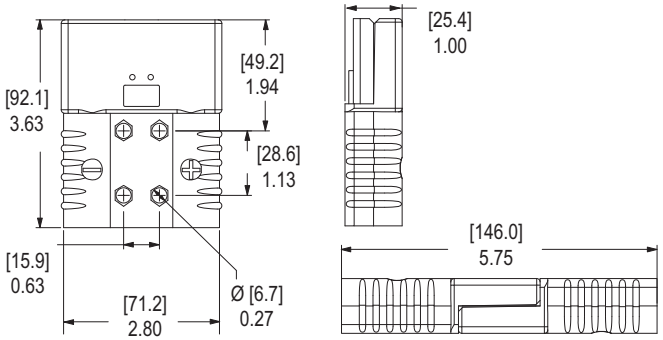
Part Number	Description	- Wire - AWG	sq. mm	- A - mm	in.	- B - mm	in.	- C - mm	in.	- D - mm	in.	- E - mm	in.
6384G1	Contact set (2)	1/0	50	59.2	2.33	13.1	0.52	11.1	0.44	20.7	0.82	12.7	0.50
6384G2	Contact set (2)	N/A	35	59.2	2.33	13.1	0.52	9.5	0.38	20.7	0.82	12.7	0.50

DIMENSIONS

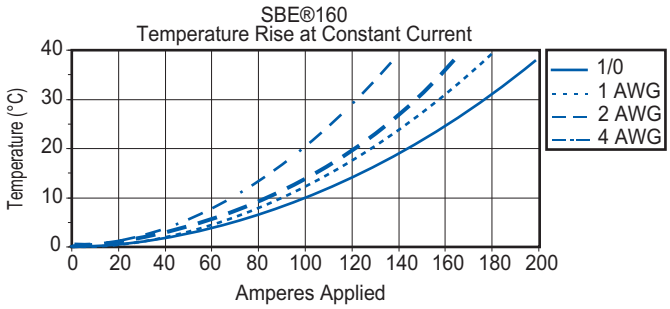
Contact

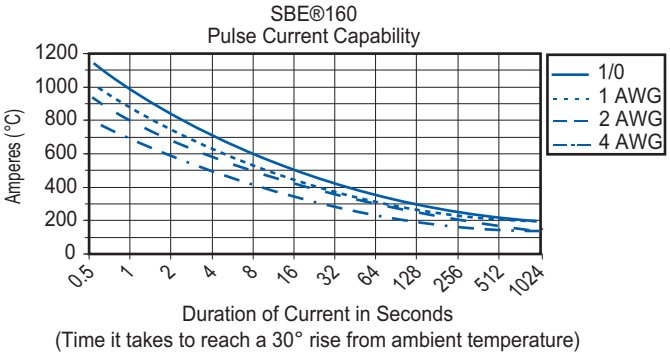


Housing



TEMPERATURE RISE CHART





TOOLING

Contact	Wire Size AWG (mm)	Insertion / Extraction Tool	Hand Tool	Hydralic Tool	Pneumatic Tool	Die	Locator
6384G2	35mm	969P1	N/A	1368	1387G2	1303G2	1304G2
6384G1	1/0	969P1	N/A	1368	1387G1	1388G3	1389G3
441G1,G2 & G3 1x4 Auxiliary's	#12 / #20 (2.5 / 0.5 mm)	PM1002G1 & PM1003G1	TM001 M22520/1-01 & PM1000G1 Four Indent	N/A	TP0001	NA	TL0004 (to be (to be used with TM001)
6344 1x2 PP Auxiliary Kit	#12 / 16 (2.5 / 1.0)	111038G2	1309G2 1309G8*	N/A	1367G1	NA	NA
6367G1 & 6366G2 1x2 Pin & Socket Auxilliary's	#14 / 16 (1.5 / 1.0)	NA	1309G1	NA	NA	NA	NA

NOTE: When using bushings, see tooling section on website, www.andersonpower.com.

TÜV Rheinland BAUART GEPRÜFT TYPE APPROVED
c UL us File No. E26226 *All Data Subject To Change Without Notice* 14588

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