SBE® CONNECTOR

Assembly instructions for SBE® 160 and SBE® 320 series two pole battery connector with option for two auxiliary contacts.



Contains one (1) housing and two (2) contacts.

FOR INSTALLATION BY A QUALIFIED ELECTRICAN IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRICAL CODES AND THE FOLLOWING INSTRUCTIONS. THE SUIT-ABILITY OF THIS TYPE OF TERMINATION MUST BE EVALUATED BY UNDERWRITERS' LABORATORIES, INC. AND CANADIAN STANDARDS ASSOCIATION FOR THE END USE APPLICATION.

Assemble contacts to the cables according to the equipment man-ufacturer's assembly instructions. The following instructions are supplied as a reference. Please note: instructions are included with each crimp tool for ter-minating specific contacts.

a1. CONNECTOR RATINGS:

SBE® 320 Series: 320 AMPS, 150V with max cable size 95mm² SBE® 160 Series: 160 AMPS, 150V with max cable size 35mm²

2. RECOMMENDED CONTACT CRIMPING:

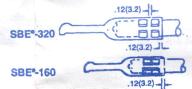
CONNECTOR		PORTABLE HYDRAULIC TOOL	BATTERY HYDRAULIC TOOL	PNEUMATIC
SIZE SBE® 320 SERIES	AWG SIZES 50, 65, 70, 85, 95		59006-00°	1387G1•
SBE® 160 SERIES	35mm²		ESCENDING IO	a neiloeto

· Use for all contacts except 300MCM. See catalog for die set part No's.

CRIMP OUTLINE:



Locate two crimps Approx. as shown



3. REDUCING BUSHINGS: recommended for fitting small cables to STD contacts assuring proper crimp connection

CONNECTOR SIZE	BUSHING SIZE (MM²)	CAT. NO.	
SBE® 320 SERIES	65 to 50	5918	
002 020 020	65 to 40	5922	
	65 to 35	5923	
SBE® 160 SERIES	35 to 25	5950	
ODL 100 OLIME	35 to 16	5951	

CAUTION:

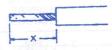
When using cable with jacket diameter less than .423 inches (11mm) on the SBE® 160 and less than .709 inches (18mm) on the SBE® 320 thin wall heat shrink insulation should be evenly applied across the cable and contact barrel junction to insure finger protection.

HEAT SHRINK INSULATION SPECIFICATIONS

CONNECTOR	NOMINAL TUBING SIZE	MINIMUM	WALL THICKNESS	
SBE® 320 SERIES	75 in (19mm)	2.0 in (51mm)	.030 in (.76mm)	
SBE® 160 SERIES	.50 in (12.7mm)	2.0 in (51mm)	.025 in (.63mm)	

4. CABLE STRIPPING DIMENSIONS:

CONNECTOR SIZE	STRIP "X" TO		
CONTECTOR	INCH	mm	
SBE® 320 SERIES	1.38	35	
SBE® 160 SERIES	.90	23	





Anderson Power Products®

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5. RECOMMENDED SOLDERING TECHNIQUES

(Use rosin flux solder only). Wrap cable strands, melt solder into well; heat and insert stripped cable. Continue heating well until solder flows into wire being careful not to over flow onto contact surfaces. DO NOT SOLDER DIP CONTACTS. When contacts are soldered to unsupported lead. Underwriters' Laboratories, Inc. requires use of cable clamps, listed in Table.

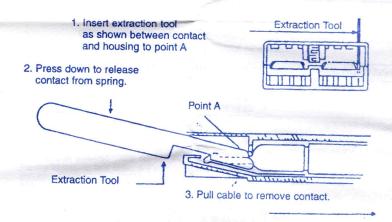
6. CABLE/CONTACT & HOUSING ASSEMBLY

Observing polarity of markings, push each contact into rear of housing until notched side snaps over spring; tug on cable to make sure contact is locked into place.

DISASSEMBLING SBE® CONNECTORS (see illus.)

Switch off power. Remove contacts by inserting extraction tool (cat. nos. SBE® 160 - 969P1, SBE® 320 - 970P1) as shown below (steps 1,2, & 3).

CAUTION: Replace contacts individually on battery leads to reduce potential danger of shorting.



CABLE CLAMP CA	TALOG NUMBERS	
CONNECTOR AMPERE RATING	FOR TWO SINGLE CONDUCTOR CABLES	
320	911G2	
160	945G2	

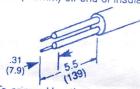
SBE® AUXILIARY CONTACTS Assembling Instructions

Two POWERPOLE® 20 ampere, 150 volt modular connectors.

Contains two each of: housings, contacts, retaining pins, cable ties



Single conductors use #12 to #18 AWG (3 - 1mm²) wire only. Strip to .31 inch (7.9mm) off end of insulation.



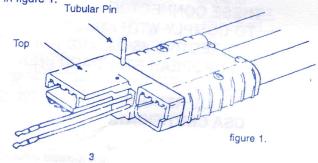
2. Twin conductor cable #12 to #18 (3 - 1mm) Strip back outer jacket 5.50 in. (139mm). (See illus.) Then strip conductor insulation as in 1.

3a.To crimp: Use the recommended tool. Crimping by other means may disturt contact position in housing and or produce high resistance joints.

* -	CRIMP	TOOL	TYPE	CAT. NO.
	Manual -	cycle contro	ol	1351G1
	Pneumatic			1353G1

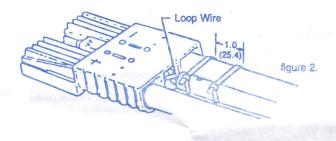
3b. To Solder: Not recommended.

- 4. Thread or push one or two auxiliary contacts and wires through the rear of the SBE® connector before inserting into auxiliary housings. Push into auxiliary housings through rear until notched side of contact tip snaps over spring. Tug wires to make sure wires are secure.
- Slide two auxiliary POWERPOLE® housings together by dovetails to stack vertically. They cannot be inserted separately into SBE® housing. The rear of the POWERPOLE® housings must be flush.
- 6. Drop stacked auxiliaries back into SBE® connector housing until seated. The male dovetail should be on top as shown in figure 1. Make sure side grooves of auxiliaries are aligned for retaining pins B insert tubular pins. Hammer pins in holes from top, as shown in figure 1.



Male Dovetail

7. Cable ties are supplied to secure the auxiliary leads or cable to one of the main connect cables. Leave slack or loop in leads to Powerpole® contacts when applying cable ties, figure 1. Wraps to be placed approximately 1 inch (25.4mm) apart as shown in figure 1.



8. To remove auxilaries, punch out pins from botton with .06 inch (1.5mm) diameter steel rod or pin driver. Also available: Contact Insertion-Extraction Tool Kit (cat. #111038G2).

WARNING

UTMOST CAUTION SHOULD BE USED WHEN WORKING ON LIVE CONNECTOR CONTACTS

PATENTS AND TRADEMARKS

This product is covered by the following patents: U.S. 3,794,957; U.K. 1,443,819; France 73,44153; Italy 1,000,442; Japan 885,802; South Africa 74/0939; Canada 990,821. Other U.S. and foreign patents pending.

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THESE CONNECTORS ARE TUV LICENSED TO COMPLY WITH ADDENDUM C OF EEC DIRECTIVE 86/663 AND ANNEX C OF EUROPEAN STANDARD prEN 1175-1

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