SB® Connector
Assembly Sheet

For all models: 50, 120, 175 and 350 amps
Two Pole Connectors with Single Piece Housings

ASSEMBLY INSTRUCTIONS

For installation by a qualified electrician in accordance with national and local electrical codes and the following instruction. The suitability of this type of termination must be evaluated by Underwriter's Laboratories, Inc. and Canadian Association for the end use application.

Assemble contact to the cables according to the equipment manufacturer's assembly instructions. The following instructions are supplied as a reference.

Please note:
Instructions are included with each crimp tool for terminating specific contacts. Use of non-Anderson Power crimp tools can effect UL & CSA Approval.

1. Strip cable to dimensions in Table A.
2. Crimp or solder contact to cable following Tables B, C and D.*
3. Observing proper polarity, place contact in housing with notched side of tongue next to spring. (see cross section above).
4. Push contact and cable into housing until snaps over end of spring; tug slightly to make sure contact is locked into place.

** Soldering recommended for cables with solid or minimal conductor stranding (ex. THHN type wire).*

Table A: Cable Stripping Dimensions

Connector Series	"X" inches	"X" mm
SB50	9/16	14
SB120	15/16	24
SB175	1-1/8	29
SB350	1-3/8	35

Table B: Recommended Soldering Techniques

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 surface. Do not solder-dip contacts. Cable clamps for solder connections to unsupported leads (required by Underwriter's Laboratories, Inc.) are listed on Table E (over).

Table C: Recommended Crimping Techniques

SB Crimping Tool	Connector Rating amps	Wire Sizes AWG	Wire Sizes mm	Tool Part Number
Manual, noncycle controlled U-type crimping tool (1)	50	#12-6 #16-6	4.0-16.0 1.5-16.0	1309G4 1309G4
Pneumatic, cycle controlled 4-indent crimping tool	120	#2-6	33.6-13.3	1387G1 or 1368
Pneumatic, cycle controlled 4-indent crimping tool	50, 175 or 350	#16-2/0 2/0-4/0	1.5-68.0 68.0-107.0	1387G1 1387G2
Hydraulic, noncycle controlled 4-indent crimping tool	175 or 350	#10-4/0	6.0-107.0	1368

Notes: 1. Use appropriate reducing bushings for smaller cable sizes (selected from table D).
2. For appropriate crimping die set, see APP® website tooling chart.
3. For high volume crimping (reeled contacts), see APP® website tooling chart.

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Table D: Contact Well Reducing Bushing

Catalog Number	For Use With	AWG Wire Size	Catalog Number	For Use With	AWG Wire Size
5912		#6-8	5687		1/0-#1
5910	SB50	#6-10 & 12	5690		1/0-#2
5913		#6-14 & 16	5693	SB175	1/0-#4
5919		#2-4	5663		1/0-#6
5920	SB120	#2-6	5648		1/0-#10
5921		#2-8	5918	SB350	2/0-1/0

Table E: Cable Clamp Catalog Numbers

Connector Series	Two Single Conductor Cables	One Twin Conductor Cables	For Single Conductor with"A" Frame Handle
SB50	990 & 990G1	5905	N/A
SB120	981G1	N/A	N/A
SB175	945	946G1	945G3
SB350	911	N/A	996G1

Disassembling Unmated SB® Housing Color

Switch off power. Remove contacts by depressing springs at the front end of the connector with an insulated screwdriver having a ¼" blade. Pull the contact lightly out of the housing.

RECOGNITION

Recognized under the Component Program of Underwriter's Laboratory, Inc.® File E26226. CSA Certified under Report LR25154. UL and CSA Reference.

PATENT INFORMATION

SB® connectors are covered by one or more of the following patents: U.S. : 241; 649: 2,838; 739; 3,654; 586; 3,909,099. Canada: 598,493; 651, 109; 923, 589. United Kingdom: 931, 658; 1,295,598.
French Publication Number: 2,084,951. France: 71,09872. Other patents pending.
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