

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 Section A.
2. Crimp or solder contact to cable following Sections 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).*

Section 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 |

Section 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 Section E (over).

Section C: Recommended Crimping Techniques

| SB Crimping Tool | Connector Rating amps | Wire Sizes | | Tool Part Number |
|---|--------------------------|------------|-------------|----------------------|
| | | AWG | mm | |
| Manual, noncycle controlled U-type crimping tool (1) | 50 | #12-6 | 2.5 - 10.0 | 1309G4 |
| | | #16-6 | 1.0 - 10.0 | 1309G4 |
| Pneumatic, cycle controlled 4-indent crimping tool | 120 | #6-1 | 10.0 - 35.0 | 1387G1 or 1368 |
| Pneumatic, cycle controlled 4-indent crimping tool | 50, 175 or | #16-2/0 | 1.0 - 50.0 | 1387G1 |
| | 350 | 2/0-4/0 | 50 - 95 | 1387G2 |
| Hydraulic, noncycle controlled 4-indent crimping tool | 175 or 350 | #10-4/0 | 4.0 - 95 | 1368 |

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

PLEASE CONSULT YOUR AUTHORIZED ANDERSON REPRESENTATIVE FOR RECOMMENDED TERMINATION TOOLING

Section 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 |

Section 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 or use an extraction tool.

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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