

SBS® Connector Assembly Instructions



SBS® 50



SBS® 75X

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 Standard Association for the end use application.

Assemble contact to the cables according to the equipment manufacturer's assembly instruction. (The following ref. Table A - for contacts listed for use with SBS50 Series Connectors and Table B - for contacts listed for use with SBS75X Series Connectors).

Table A: Contacts listed for use with SBS50 Series

Contact P/N	Wire Size	Rating		
1339G2	#6 AWG	110 Amp	600V	USR
1339G5	#8 AWG	85 Amp	600V	
1339G3	#10 AWG	65 Amp	600V	
1339G3	#12 AWG	45 Amp	600V	
1339G2	#6 AWG	75 Amp	600V	CNR
1339G5	#8 AWG	60 Amp	600V	
1339G3	#10 AWG	45 Amp	600V	
1339G3	#12 AWG	35 Amp	600V	

Table B: Contacts listed for use with SBS75X Series

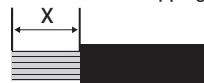
Contact P/N	Wire Size	Rating		
1339G2	#6 AWG	110 Amp	600V	USR
1339G5	#8 AWG	85 Amp	600V	
1339G3	#10 AWG	60 Amp	600V	
1339G3	#12 AWG	50 Amp	600V	
SBS75X Series with auxiliary contacts				
1339G2	#6 AWG	105 Amp	600V	USR
1339G5	#8 AWG	80 Amp	600V	
1339G3	#10 AWG	55 Amp	600V	
1339G3	#12 AWG	45 Amp	600V	
Contact P/N	Wire Size	Rating		
1339G2	#6 AWG	75 Amp	600V	CNR
1339G5	#8 AWG	65 Amp	600V	
1339G3	#10 AWG	45 Amp	600V	
1339G3	#12 AWG	35 Amp	600V	
SBS75X Series with auxiliary contacts				
1339G2	#6 AWG	75 Amp	600V	CNR
1339G5	#8 AWG	60 Amp	600V	
1339G3	#10 AWG	35 Amp	600V	
1339G3	#12 AWG	30 Amp	600V	

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

- Strip cable to dimensions in Table C.
- *Crimp or solder contact to cable following Tables D and E.
- Main Power Contacts
 - Observing proper polarity, place contact in housing with notched side of tongue next to spring.
 - Push contact and cable into housing until it snaps over end of spring; tug slightly to make sure contact is locked into place.
- Optional Aux. Contacts
 - Crimp contacts are to be inserted from the rear side of the connector using insertion tool 111038G3 (two upper holes are for pin contacts and two lower holes are for socket contacts).

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

Table C: Cable Stripping Dimensions



Connector Series	Contact Type	"X" Inches	"X" MM	Notes
SBS®50	Main Power	9/16	14	
SBS®75X	Main Power	9/16	14	
	Aux. Pin Aux. Socket	0.18 0.21	4.6 5.3	For use when wire insulation OD is smaller than crimp barrel ID.
	Aux. Pin Aux. Socket	0.33 0.37	8.4 9.4	For use when wire insulation OD is larger than crimp barrel ID & wire size is #18 AWG or smaller.
	Aux. Pin Aux. Socket	0.24 0.28	6.1 7.1	For use when wire insulation OD is larger than crimp barrel ID & wire size is #12/16 AWG.

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 required for solder connections (required by Underwriter's Laboratories, Inc.) are listed on Table F.

Table D: Recommended Crimping Techniques

Crimping Tool	Contact Type	Wire Sizes		Tool Part Number
		AWG	mm ²	
Manual, cycle controlled U-type	Main Power	#16 - 6	1.5 - 16.0	1309G4
Pneumatic, cycle controlled 4-indent		#16 - 4/0	1.5 - 107.0	1387G1 *
Manual, hand	Aux. Pin & Socket	#24 - 12	0.5 - 4.0	PM1000G1
Semi-automatic				PM1001G1

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

* PLEASE CONSULT YOUR AUTHORIZED ANDERSON REPRESENTATIVE FOR RECOMMENDED TERMINATION TOOLING

Table E: Contact Well Reducing Bushing

Bushing Number	For Use With	AWG Wire Size
5912	1399G2 Contacts	#6 - 8
5910		#6 -10 & 12
5913		#6 -14 & 16

Table F: Cable Clamp Catalog Numbers

Connector Series	For Two Single Conductor Cables	For One Twin Conductor Cables
SBS®50	990 & 990G1	5905

Disassembling Unmated SBS® Connector

Main Power Contacts: Switch off power. Remove contacts by depressing springs at the front end of the connector with an insulated screwdriver having a 1/8" blade. Pull the contact lightly out of the housing.

Optional Aux Contacts: Contacts are released from the front side of the connector and removed from the rear using extraction tool PM1003G1.

RECOGNITION: Recognized under the Component Program of Underwriter's Laboratories, Inc.® File E26226. UL and CSA Recognized Components. 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. TRADEMARKS: "Anderson Power Products" is a registered U.S. and foreign trademark of Anderson Power Products, 13 Pratts Junction Road, Sterling, MA 01564 USA

