

# 1x4 Auxiliary Connector Assembly Instructions

## Four Pole Connector with Single Piece Housing for use in SBE®, SBX® and SBO® housings

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

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

Table A: Recommended Crimp/Assembly Tools			
Tool Type	Wire Sizes		Tool Part Number
	AWG	Mm <sup>2</sup>	
Crimp- Hand tool	#24-12 awg	.5 – 4.0	PM100G1
Contact Insertion*	#24 – 16 awg*	.5 – 1.5mm <sup>2</sup> *	PM1002G1
Contact Extraction	#24-12 awg	.5 – 4.0	PM1003G1

\* when larger wires are used, the insertion tool is not needed

### Step 1:

Strip cables to dimensions in table below.

Table B: Cable Stripping Dimensions			
Contact Type	Dimension "X"		Notes
	IN	MM	
Aux. Pin	0.18	4.6	For use when wire insulation OD is smaller than crimp barrel ID.
Aux. Socket	0.21	5.3	
Aux. Pin	0.24	6.1	For use when wire insulation OD is larger than crimp barrel ID.
Aux. Socket	0.28	7.1	

Please note that instructions are included with each crimp tool for terminating specific contacts. Use of crimp tools not approved by Anderson Power Products can affect UL and CSA approval.

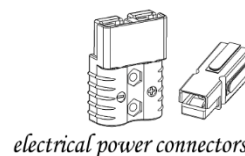
### Step 2:

\*Crimp or solder contacts to cable following crimp tool instructions or recommended soldering techniques.

#### Recommended Soldering Techniques

Use rosin flux solder only. Wrap cable strands. Melt solder into well, then 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. Cable clamps or cable ties are required for solder connections

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**Step 3:**

Thread or push auxiliary cables thru the rear of the SBE/X housing.

**Step 4:**

Line up the 1x4 housing with open end up as shown in Figure 1

**Step 5:**

Insert the crimped contacts from the rear of the housing using an insertion tool PM1002G1 in direction as shown in Figure 1. When properly inserted the contacts will “click” into place. Pull back on the contacts with a light tug to ensure that contacts are fully seated. When the cable is twisted, the contacts should rotate freely.

**Step 6:**

Install the 1x4 auxiliary housing into the SBE in orientation as shown. Install two retaining pins or alternate retaining clip to secure the auxiliary housing. (Figure 2)

