



SBE 700 Amp Connector

Assembly Instructions

700 Amp Power

Contacts: (2) per housing.

Wire size: (2) 250 MCM cables per contact for 700 Amps, or (2) 4/0 cables per contact for 600 Amps.

Wire Type: Flexible stranded class I, K, M, Types W or EV.

Insulation Removal Distance: 2.50"

Cable orientation: The two cables should lay horizontal, side by side, and parallel to the contact blade.

Number of Crimps: (2) per contact, with bumps parallel to contact blade.

Recommended Crimp Die: Burndy #20 "U"

1. Insert contact with cables into housing until there is an audible snap indicating that the contact has locked onto the spring.



Figure 1:
Contact insertion orientation

2. The contacts can be removed from the housing by inserting a small screwdriver (.125 in. wide blade) into the appropriate hole in the front of the connector. Position the screwdriver blade horizontal and push it into the recess in the underside of the contact. This will put the blade between the contact and the spring. Rotating the screwdriver a quarter turn in either direction will lift the contact off the spring and allow the contact and cables to be withdrawn from the housing.



Figure 2:
Screwdriver insertion for contact removal



Figure 3:
Rotate screwdriver to remove contact

Cable Clamp Installation

Number of Clamps Required: (1) per connector.

Number of Bolts w/Nuts Required: (2) per clamp

Size of Bolts: 1/4 - 20

Length of Bolts: 1.75" lg.

Torque Requirement: 10 inch pounds

The cable clamp is oriented with the ribs pressing against the cables.



Figure 4:
Cable clamps with ribs oriented towards cable



Figure 5:
Cable clamp secured with 1/4-20 bolts

Connector Mounting

Number of Bolts: (4 per connector)

Size of Bolts: 1/4 - 20

Length of Bolts: 3" lg. min. for Release Lever and Bracket, 2.25" lg. for Latch Plate

Connector Orientation: Top up when mounted in the Latch Plate, bottom up when mounted in Release Lever and Bracket. (see Figure 6)



Figure 6:
Two connectors in mating position, assembled with Latch Plate, and Release Lever and Bracket

WARNING

UTMOST CAUTION SHOULD BE USED WHEN WORKING ON LIVE CONNECTOR CONTACTS

PATENTS AND TRADEMARKS

This product is patent pending.

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