





NOTE: Not to Scale

CONNECTOR				CABLE			
CATALOG NUMBER	LENGTH IN. [MM]	OD IN. [MM]	SOCKET SIZE IN. [MM]	CONDUCTOR RANGE	STRIP LENGTH IN. [MM]	CONDUCTOR OD RANGE IN. [MM]	REMOVE INSERT FOR CONDUCTOR SIZE GREATER THAN OR EQUAL TO IN. [MM]
CSBE-2-4/0	3.8 [96]	1.38 [34.9]	1/2 [13]	#2 AWG Compact to 4/0 AWG Stranded	1-5/8 [41]	.268528 [6.8-13.4]	N/A
CSBE-2/0-500	4.1 [104]	1.38 [34.9]	11/16 [17]	2/0 AWG Compact to 500 kcmil Stranded	1-7/8 [48]	.376813 [9.6-20.7]	350 kcmil Compact Ø.616 [Ø15.65]
CSBE-300-750	4.6 [116]	1.50 [38.1]	3/4 [19]	300 kcmil Compact to 750 kcmil Stranded	2-3/8 [60]	.570998 [14.5-25.3]	600 kcmil Compressed Ø.866 [Ø22]
CSBE-500-1000	5.6 [143]	1.75 [44.5]	3/4 [19]	500 kcmil Compact to 1000 kcmil Stranded	3-3/8 [85]	.736-1.152 [18.7-29.3]	750 kcmil Stranded Ø.998 [Ø25.35]
CSBE-1000-1250	5.6 [143]	1.88 [47.6]	3/4 [19]	1000 kcmil Compact to 1250 kcmil Stranded	3-3/8 [85]	1.060-1.289 [26.9-32.7]	N/A

Figure 1

2. INSTALLATION PROCEDURES

terminated.

2.1. Cable Preparation

CAUTION

1. INTRODUCTION

This instruction sheet provides the installation procedure for Copper ShearBolt Elbow Connectors described in Figure 1.



Copper ShearBolt Elbow Connectors are intended to be used in IEEE 386 Interface Elbows for applications rated up to 900A. Consult the elbow manufacturer's installation instructions for compatibility.



Dimensions in this instruction sheet are in imperial units [with metric units in brackets]. Figures are for reference only and are not drawn to scale.

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TOOLING ASSISTANCE CENTER 1-800-722-1111 PRODUCT INFORMATION 1-800-522-6752

DO NOT use a conductor that has been previously

1. Make sure the elbow connector being installed is

Ensure that the conductor end has a straight (rightangle) cut. Strip the conductor end as shown in

Figure 1. Refer to the appropriate elbow installation

for further cable preparation instructions relative to

appropriate for the conductor size being used.

the semicon and outer, insulation layers.

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2. Using a wire brush dedicated for use on copper conductors, thoroughly clean the bare surface strands of the conductor end. Cleaned conductor ends should be installed *immediately* after wire brushing.

2.2. Connector Installation

1. Determine whether the insert should be removed according to the conductor size (see table in Figure 1). If insert removal is required, use a small screwdriver to lift or tap the insert from the connector body. If insert is not removed, ensure it is properly positioned in the connector barrel during installation (insert indent seated in connector notch). DO NOT remove the inhibitor contained inside the connector.

2. Back out all bolts to give clearance for the conductor in the connector body.



CAUTION Do not completely remove the bolts from the connector body. Removing bolts followed by improper bolt re-installation could result in stripping of the threads.

3. Insert the conductor into the connector body. For proper installation, there should be NO GAP between the insulation and the connector body.

4. Tighten the bolts in a three-stepprocess:

a. Hand-tighten the bolts to firmly grip conductor in place. Follow the tightening sequence shown in Figure 2.

b. Using a wrench with a hexagonal socket, tighten the bolts one to one-and-a-half turns (or a one second interval if using the TE Connectivity Cordless Impact Wrench as referenced in Figure 2), repeating the sequence in the previous step. Bolts should remain un-sheared. Prevent core bending by using Holding Tool IT-1000-019 (or equivalent) with the wrench as shown in Figure 2.



Cordless Impact Wrench T25446-000 can be used instead for installation. A holding tool is not needed is using this wrench.

c. Repeat the sequence using the preceding steps, tightening each bolt until the head shears off.

5. Smooth sharp edges or protruding bolts using the supplied sandpaper or a file.

3. REVISION SUMMARY

- New Logo
- Add note in section 2.2 for insert positioning.
- Change to DeWalt Impact Wrench.



