

Issue Date: 1/21/2013

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File: PSS-K655CCP

|         |                                                                               |                |            |
|---------|-------------------------------------------------------------------------------|----------------|------------|
| 15/25kV | 600 Series ComboT Elbow/Connecting plug with Stud, Cable Adapter, and Lug Kit | w/o Test Point | K655CCPW0X |
|---------|-------------------------------------------------------------------------------|----------------|------------|



## Features:

- Each combination elbow/connecting plug reduces stack height by 2.67"
- Simple connection system reduces the chance of cross threading and is easier to line up and install
- Allows reduced number of interfaces and reduced inventory
- Installs with standard assembly tools
- Internal hex broach ensures proper installation torque
- IEEE 386 color coded PBT interface that provides better visibility, a seating indicator, and reduces sticking

## K655CCPW0X

### ComboT Elbow/ Connecting Plug w/Stud, Cable Adapter, and Lug Kit

## Applications:

The 15/25kV CCP simple design makes assembly quick and easy, utilizing a standard  $\frac{5}{8}$ " – 11 stud that is threaded into the equipment bushing. The hollow bore of the ComboT allows visual validation that the compression lug is positioned properly before the snuffer/bus is inserted and tightened. If preferred, the stud may be first threaded into the snuffer/bus. Again, the hollow bore of the ComboT allows visual validation that the compression lug is correctly positioned before proceeding.

## Ratings:

Meets ANSI/IEEE Standard 386, Latest Revision

### For 15kV Voltage Class:

8.3kV Max Phase-to-Ground – Operating Voltage  
14.4kV Max Phase-to-Phase  
95kV BIL – Impulse Withstand (1.2 x 50  $\mu$ s wave)  
34kV AC – One minute withstand  
53kV DC – 15 minutes withstand  
11kV AC – Corona Extinction @ 3pC sensitivity

### For 25kV Voltage Class:

15.2kV Max Phase-to-Ground – Operating Voltage  
26.3kV Max Phase-to-Phase  
125kV BIL – Impulse Withstand (1.2 x 50  $\mu$ s wave)  
40kV AC – One minute withstand  
78kV DC – 15 minutes withstand  
19kV AC – Corona Extinction @ 3pC sensitivity

### 200 A Loadbreak Interface

200 Amp – Continuous and Loadbreak  
10kA Sym – 10 Cycles Momentary & Fault Close

### 600 A Deadbreak Connection

600 Amp – Continuous  
25kA Sym – 10 Cycle Momentary

|         |                                                                               |                |            |
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## Catalog Number Selection:

### Step 1 – Selecting proper W Code

- Determine the insulation diameter of the cable. Select the insulation letter code that best straddles the insulation diameter from the W table below. Insert into the catalog number.

### Step 2

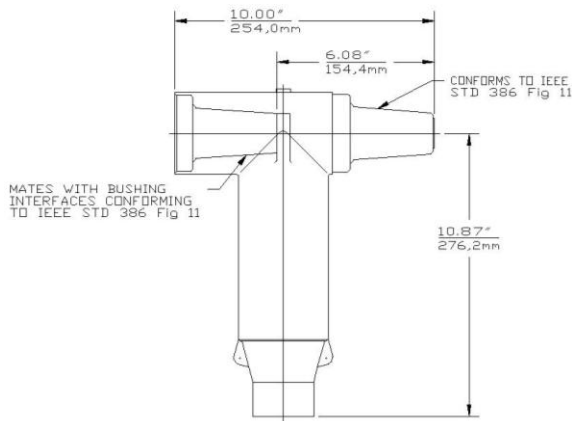
- Insert conductor material code.

### Step 3 – Selecting proper X code

- Choose the proper compression lug code according to the conductor size from X table below. Insert code into catalog number.

### Example:

The ordering number for a 15/25kV, 200/600A loadbreak connecting plug without test point for a 4/0 stranded, 175 mil wall cable with an insulation diameter of .940" (23.4 mm) is K655CCPH0270.



K655CCP - **W Code** **0** **X Code**

| Cable Insulation Dia. Range |       |      |      | W Code |
|-----------------------------|-------|------|------|--------|
| Inches                      |       | mm   |      |        |
| 0.640                       | 0.820 | 16,3 | 20,8 | F      |
| 0.760                       | 0.950 | 19,3 | 24,1 | G      |
| 0.850                       | 1.050 | 21,6 | 26,7 | H      |
| 0.980                       | 1.180 | 24,9 | 30,0 | J      |
| 1.090                       | 1.310 | 27,7 | 33,3 | K      |
| 1.180                       | 1.465 | 30,0 | 37,2 | L      |
| 1.280                       | 1.430 | 32,5 | 36,3 | LM     |
| 1.370                       | 1.630 | 34,8 | 41,4 | M      |
| 1.515                       | 1.780 | 38,5 | 45,2 | N      |
| 1.725                       | 1.935 | 43,8 | 49,1 | P      |

| X Code | AWG or kcmil        |                | mm2     | Connector Only     |
|--------|---------------------|----------------|---------|--------------------|
|        | Strand./Comp ressed | Solid/ Compact | Compact | Universal Aluminum |
| 210    | -                   | 2              | -       | 03700210           |
| 220    | 2                   | 1              | 35      | 03700220           |
| 230    | 1                   | 1/0            | 50      | 03700230           |
| 240    | 1/0                 | 2/0            |         | 03700240           |
| 250    | 2/0                 | 3/0            | 70      | 03700250           |
| 260    | 3/0                 | 4/0            | 95      | 03700260           |
| 270    | 4/0                 | 250            | 125     | 03700270           |
| 280    | 250                 | 300            | -       | 03700280           |
| 290    | 300                 | 350            | 150     | 03700290           |
| 300    | 350                 | 400            | 185     | 03700300           |
| 310    | 400                 | 450            | 240     | 03700310           |
| 320    | 450                 | 500/550        | -       | 03700320           |
| 330    | 500                 | 600            | 250/300 | 03700330           |
| 350    | 600                 | 700            | -       | 03700350           |
| 360    | 650                 | 750            | 400     | 03700360           |
| 380    | 700/750             | 900            | -       | 03700380           |
| 390    | 800                 | -              | -       | 03700390           |
| 400    | 900                 | 1000           | 500     | 03700400           |
| 410    | 1000                | -              | -       | 03700410           |
| 420    | -                   | 1250           | -       | 03700420           |
| 440    | 250                 | -              | -       | 03700440           |

### Each kit contains the following:

|   |                          |          |
|---|--------------------------|----------|
| 1 | Elbow Connector Housing  | K655BCCP |
| 1 | Stud                     | 650SA    |
| 3 | Compression Lug          | 03700XXX |
| 1 | Tube, Lubricant          | 82-08    |
| 1 | Cable Adapter            | 655CA-W  |
| 1 | Installation Instruction | IS-1218  |
| 1 | Crimp Chart              | CC-0050  |