

## Demo 4: Create a New Connector Type

In this part of the demo we will create a new connector type and connector graphic for the J2 connector on the demo harness board. Once created, a connector type can be used in any of your test programs.

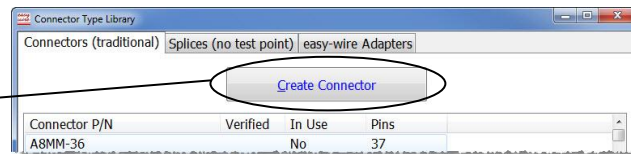
### Step 1

In the easy-wire main menu, click **Connector Type Library**.



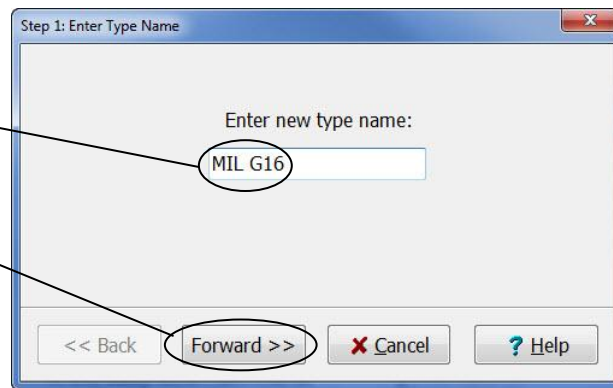
### Step 2

In the "Connector Type Library", click **Create Connector**.



### Step 3

In this example, type **MIL G16** for the connector type name and click **Forward**.



**Hint:** Connector Type Names can be generic or specific (such as the manufacturer's name or part number) depending on your preference and application.

### Step 4

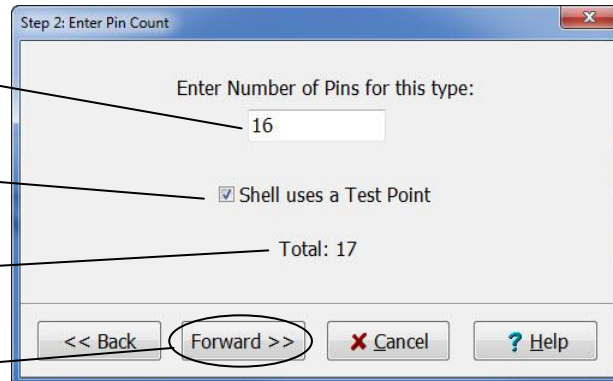
Type 16 for the number of pins.

### Step 5

Check the "Shell uses a Test Point" box. Notice that the total changes from 16 to 17 when you include the shell.

### Step 6

Click **Forward**.



### Step 7

Pin names can be either numeric or alpha. If our connector was numeric, you would type 1 for the first pin name and the software would auto-fill the remaining pins.

Since this demo connector is Alpha, type **A** and click **Forward**.

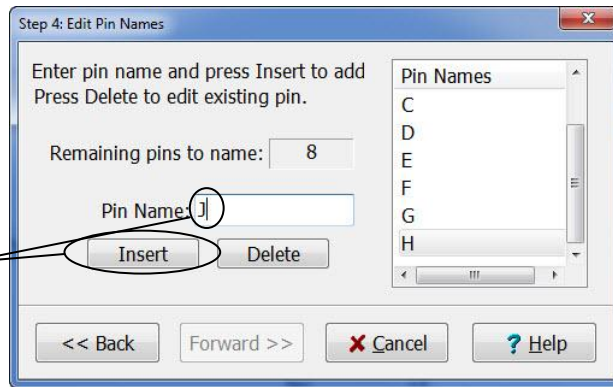


**Note:** Alpha characters may be either lower or upper case.

### Step 8

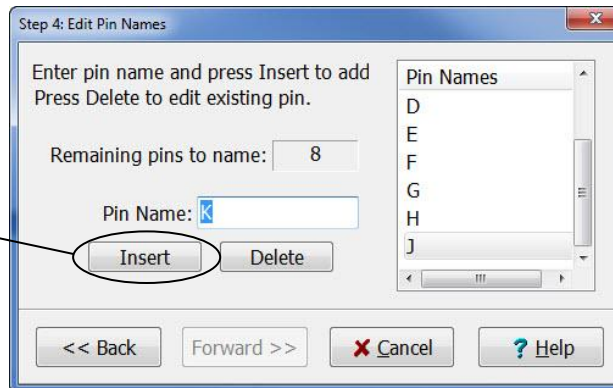
The auto-complete feature will stop on **I**, the first uncommon pin name. Pin name **I** is not in the J2 connector.

The next consecutive pin name in the connector is **J**. Type **J** and click **Insert**.



### Step 9

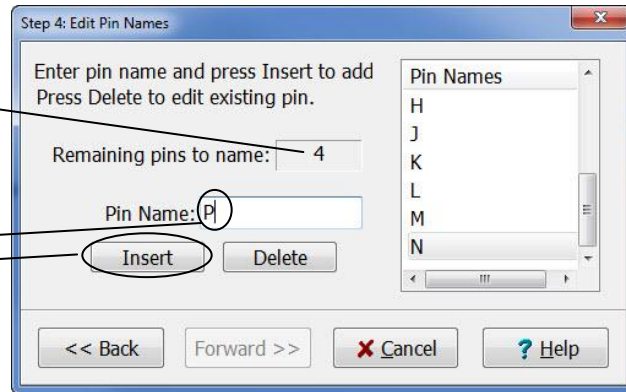
Pin names **K**, **L**, **M**, and **N** are in the J2 connector. Click **Insert** until these four pin names have been inserted.



Notice that the “Remaining pins to name” box shows how many pin names are left to be assigned.

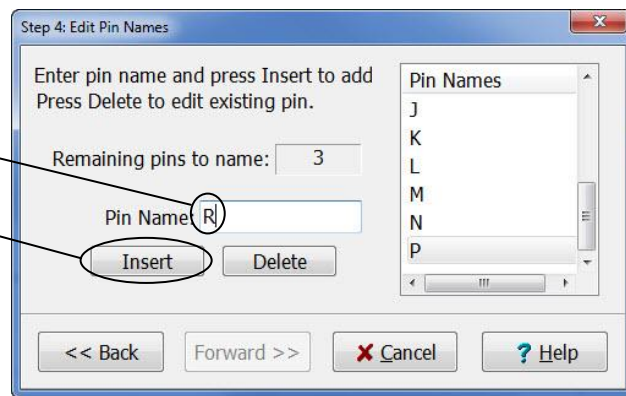
### Step 10

Pin name **O** is not in the J2 connector. Type **P** and click **Insert**.



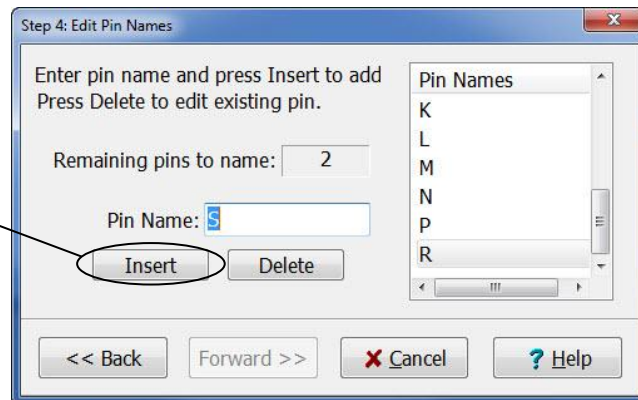
### Step 11

Pin name **Q** is not in the J2 connector. Type **R**, and click **Insert**.



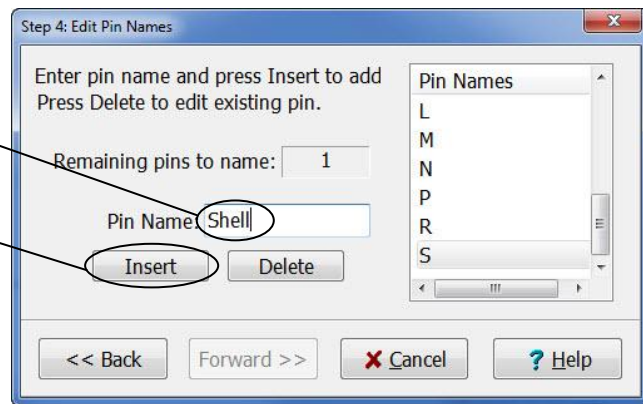
### Step 12

Pin name **S** is in the J2 connector. Click **Insert**.



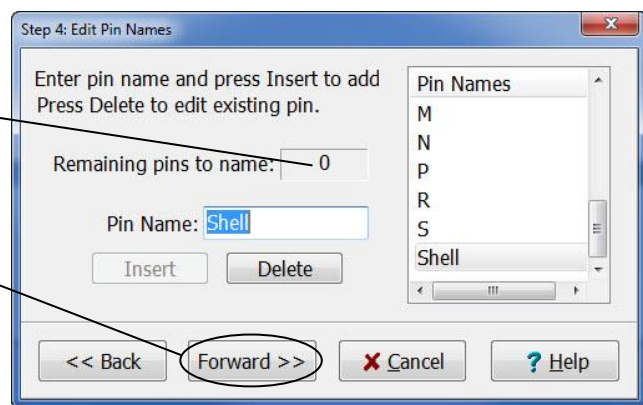
### Step 13

Pin name **T** is not in the J2 connector. Type in **Shell** and click **Insert**.



### Step 14

When 17 pin names have been assigned, the “Remaining pins to name” box will be 0 and the “Forward” button will become active. Click **Forward**.



**Troubleshooting:** If the “Forward” button is grayed out, check the Pin Names list to ensure that all 17 names are as shown below:

A, B, C, D, E, F, G, H, J, K, L, M, N, P, R, S, Shell.

**If you missed naming a pin,** type the name in the “Pin Name” box and click **Insert** (the pin name list will be automatically ordered in numeric or alpha order).

**To delete a pin name,** select the desired name in the “Pin Names” list and click **Delete**.

**Note:** The “Select a graphics option” window will open. Keep this window open and continue to “Creating the Connector Graphic” on the next page.

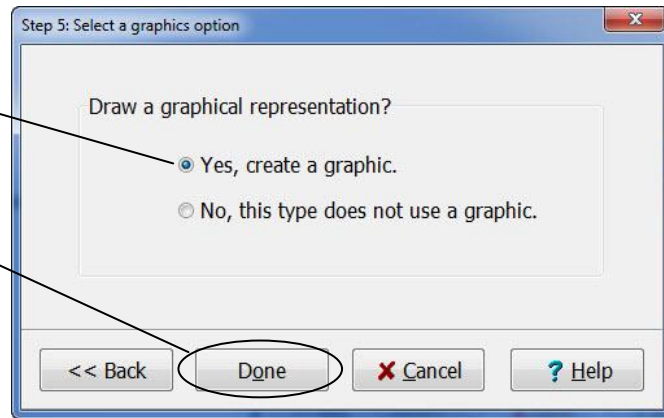
---

## Creating the Connector Graphic

---

### Step 1

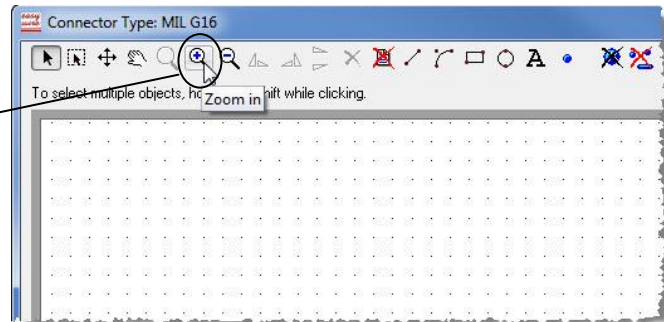
In the “Select a graphics option” window, select “Yes, create a graphic” and click **Done**.



---

### Step 2

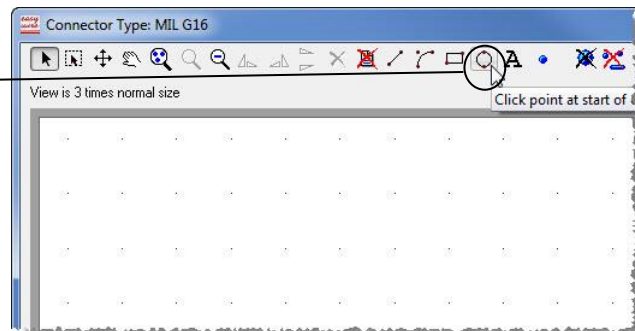
At the top of the Connector Type graphic window, click the “Zoom in” icon to enlarge the grid.



---

### Step 3

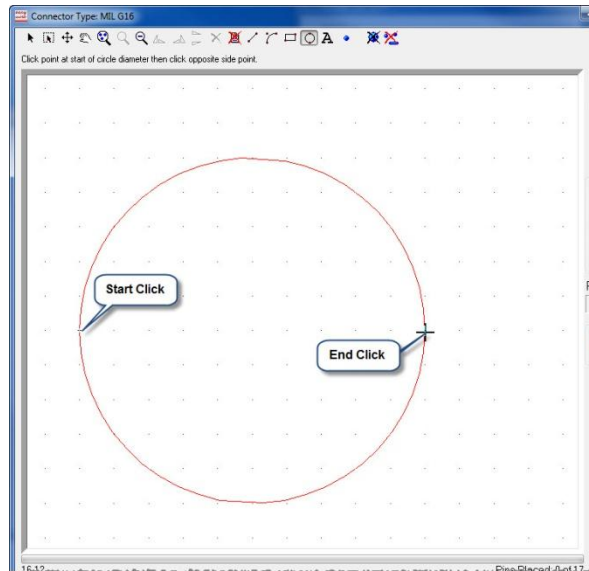
Click the circle drawing tool.



## Step 4

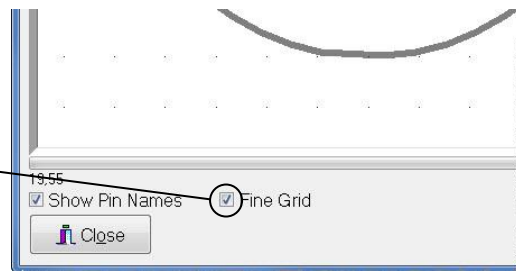
To draw the outer circle of the J2 connector, do the following:

- Center the cross-hairs over a grid dot on the middle far left side of the grid and click once.
- Release the mouse button and expand the red circle about ten grid spaces to the right as shown (if necessary, resize the window).
- Click again to place the circle. This action changes the circle to a solid grey color.



## Step 5

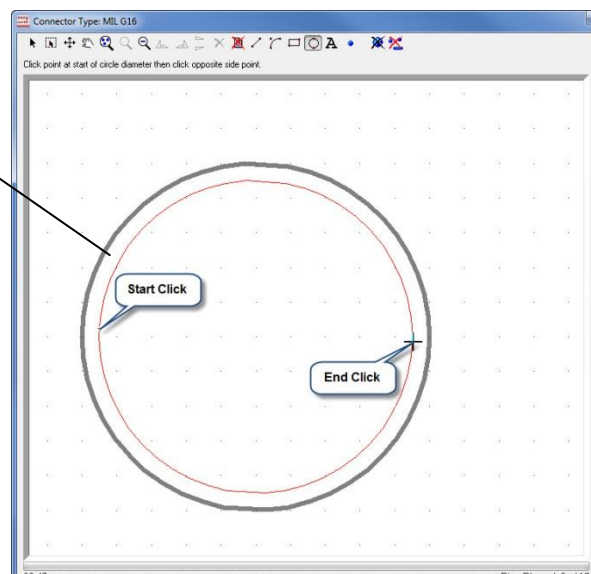
At the bottom of the connector graphic window, check the "Fine Grid" check box.



**Note:** Fine Grid allows more flexibility when you are drawing by enabling you to use the space between the grid markers.

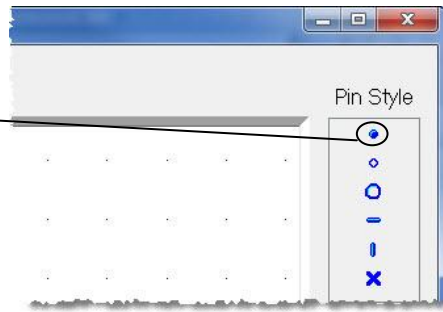
## Step 6

Similarly to step 4, draw a slightly smaller circle inside the outer circle.



### Step 7

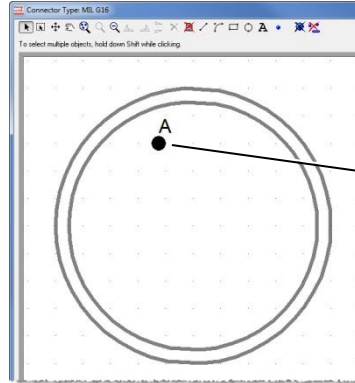
On the right side of the window, select the solid Pin Style.



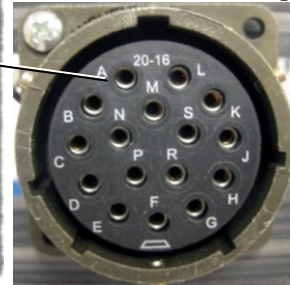
### Step 8

To place pin A, compare the J2 connector image to the Connector Type Graphic J2 and click on the approximate Pin A location as shown.

#### J2 Connector Type Graphic



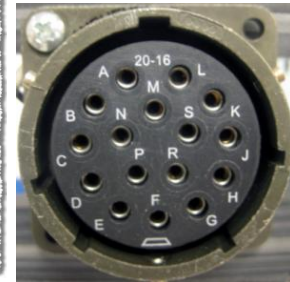
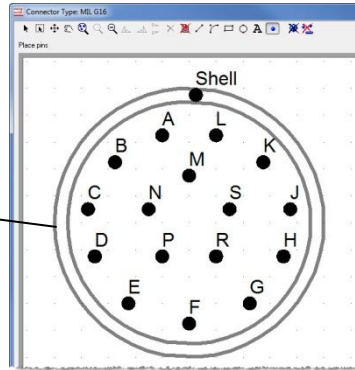
#### J2 Connector Image



### Step 9

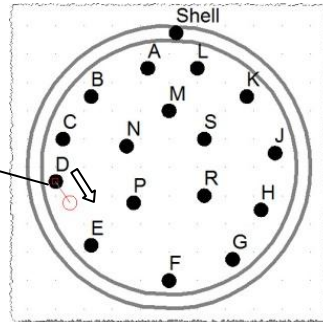
Continue to click each approximate pin location in alphabetical order until all the pin names have been placed (including the shell at the end).

**Don't worry if the pin locations look out of place!** After placing all the pins, you can move the pin symbols (see below).

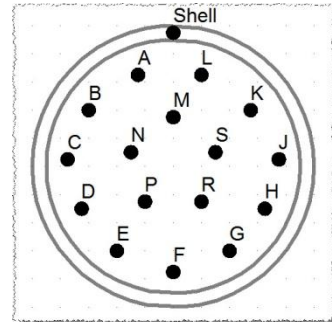


**To move a pin symbol,** click and drag the symbol to the desired location.

#### Before

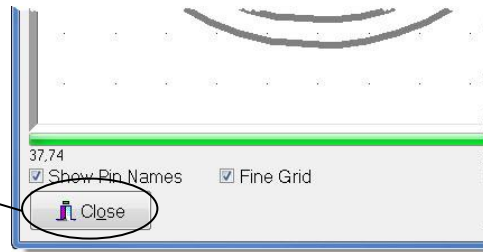


#### After



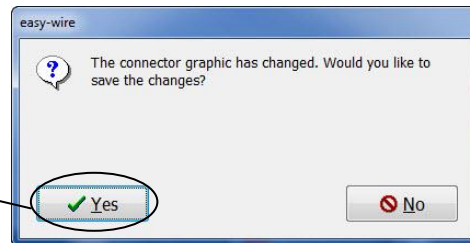
## Step 10

To save the connector graphic, click **Close**.



## Step 11

When this window opens asking if you would like to save the changes, click **Yes**.



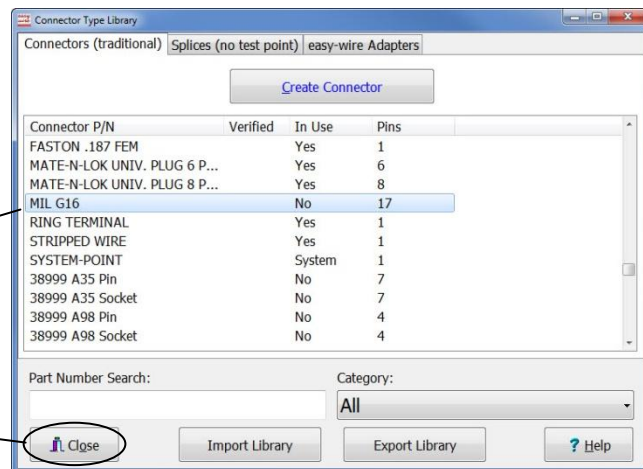
**Congratulations!** You have added a new connector type to the Connector Type Library!

## Step 12

The Connector Type Library will be open. Notice that the library is in alphabetical order.

Scroll down and notice that the new connector type you just created is now the library.

Click **Close** to return to the main menu.



**Note:** When you create a new connector type, you must decide to create either the device-under-test connector or the mating fixturing connector. Once you decide, be consistent to avoid confusion in future assemblies.

If you don't have a standard, Cirris recommends creating the device-under-test connector type. This is consistent with Cirris easy-wire and Signature adapters.

In this demo, we created the backside (or insertion side) of the device-under-test.

