

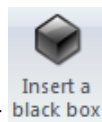
elecworks™ Tips & Tricks

Saving a Black Box Symbol to the Library

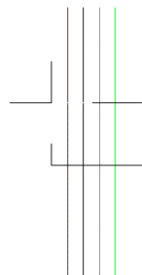
A black box symbol is a parametric symbol created on the fly around existing circuitry already in your schematic. A black box symbol is dynamic and will update, if required, if the wires connecting into the black box change. The black box symbol may also be permanently saved into the library to store as a standard multi-wire symbol.

In the following Tips and Tricks, we will go through the above process.

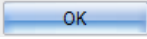
Draw four vertical wires as shown



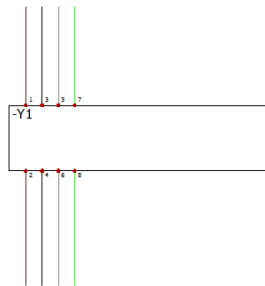
From the *Schematic* ribbon tab, select **Insert a black box** *Insert a black box*



As you place the black box down, you can *drag* out the *right corner* making the box longer

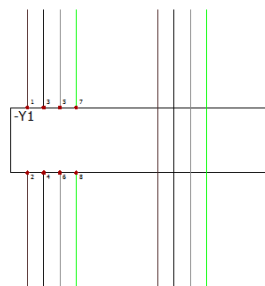
Select 





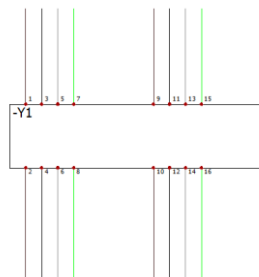
The new symbol has been created with automatic connection points.

Now draw a further four vertical wires running through the box




Right click on the black box and select *Update Black box*

The new connection points will automatically update the symbol



To add the symbol to the library, *right click* over the symbol > *Symbol* > *Add to library*

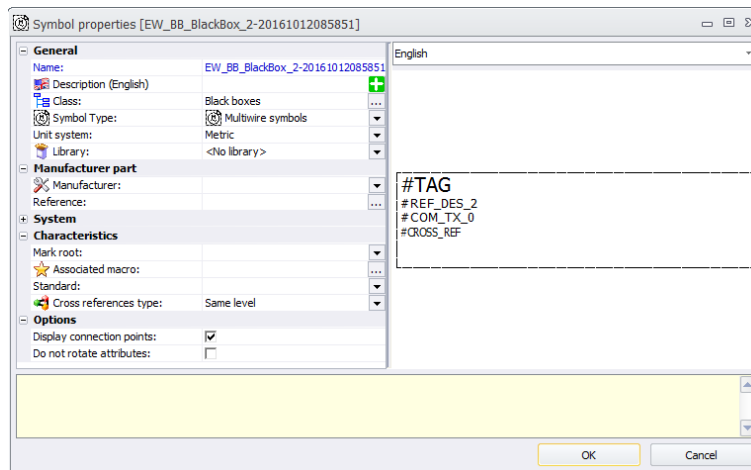
 Create a new symbol.
A new symbol will be created and added to the symbol library.

Select

 Save as multiwire symbol
To keep connection point from the scheme.

Select

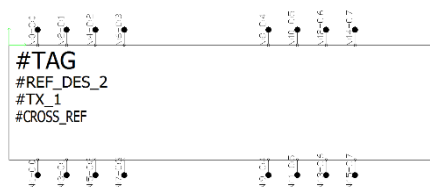
The *Symbol Properties* dialogue will appear



The Symbol name and the Classification can be changed to whatever you want. However, the Symbol type must be changed from Black box symbols to Multiwire symbols

Select 

The new symbol will now be added into the library and automatically opened up. The outline of the device (i.e. rectangle) will be dashed and you may wish to change to a continuous line type. Right click over the rectangle and select *Properties* to change



The new symbol is now completed and stored within the library and therefore available for use within any future projects!