

Ring Terminal

A. Component from Design Library.

Step 1. Click the **Design Library** tab  in the Task Pane, **Fig. 1**.

Step 2. Expand **routing** and click **electrical** folder.

Step 3. In the lower pane, **right click ring term_18_22_awg-x_6** and click **Open**, **Fig. 1**.

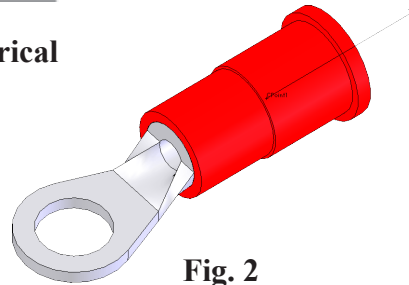
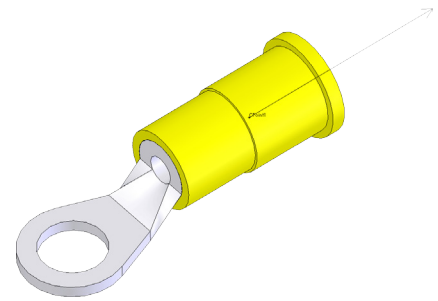


Fig. 2



B. Save As "RING TERMINAL-26-22" in My Electrical Routing.

Step 1. Click File Menu > Save As.

Step 2. In the Save As dialog box:
key-in **RING TERMINAL-26-22** for file name, **Fig. 3**

navigate to **My Documents/Tech Ed 17-18/My Electrical Routing** folder,

click **Save**.

Step 3. Later, we will add the My Electrical Routing folder to the Design Library.

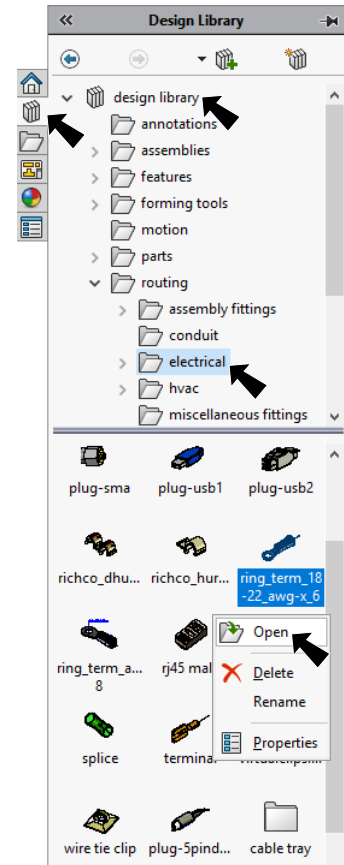


Fig. 1

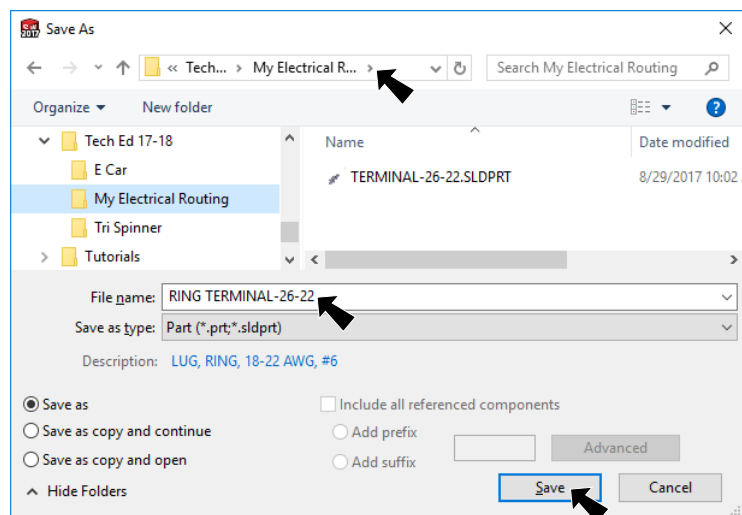




Fig. 3

C. Raise Barrel.

Step 1. Click **Extrude2** in the Feature Manager and click **Edit Sketch**  on the context toolbar, **Fig. 4**.

Step 2. Click **Normal To**  on the Standard Views toolbar. (Ctrl-8)

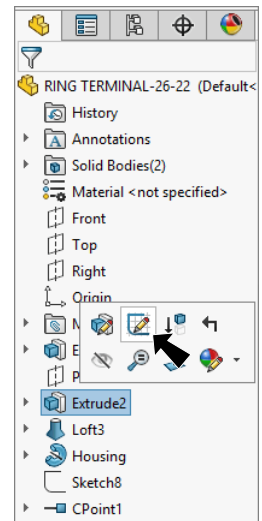
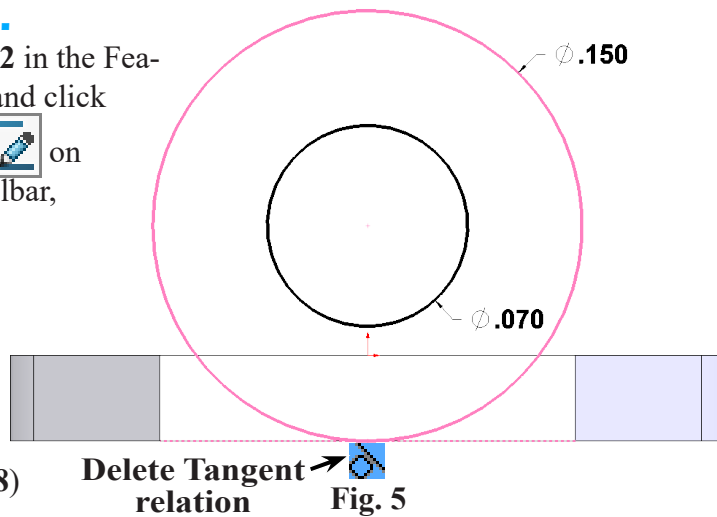

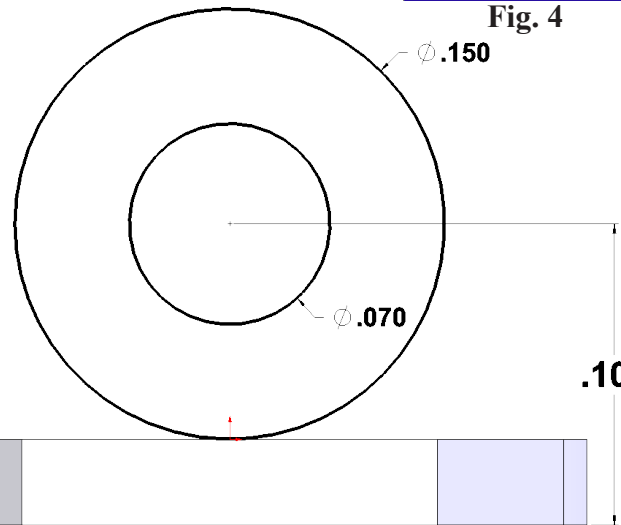


Fig. 4

Step 3. Delete the tangent relation between the outer circle and the bottom line. To delete, click the **outer circle** to display Relation icons, then click the **Tangent Relation icon**  at bottom and press **Delete** key, **Fig. 5**.



Step 4. Click **Smart Dimension (S)**  on the Sketch toolbar.

Step 5. Add **.105** dimension between **circle centerpoint** and **bottom edge of extruded feature**, **Fig. 6**.




Fig. 6

Step 6. Click **Exit Sketch**  on the Sketch toolbar.

Step 7. Save. Use **Ctrl-S**.

D. Repair Loft - Guide Curve Sketch Plane.

Step 1. Click **Front**  on the Standard Views toolbar. (Ctrl-1)

Step 2. Expand **Loft3** in the Feature Manager, click **Sketch5** and click **Edit Sketch Plane**  on the context toolbar, **Fig. 7**.

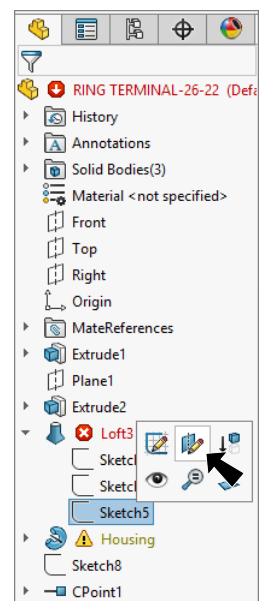



Fig. 7

- Step 3. In the Sketch Plane Property Manager set:
 under Sketch Plane/Face, **Fig. 8**
 Expand the flyout Feature Manager design tree
 (click ▾) in the top left corner of the graphics
 area and click **Front Plane** , **Fig. 9**
 click OK .

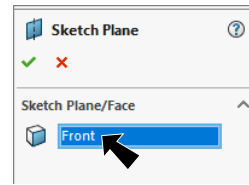


Fig. 8

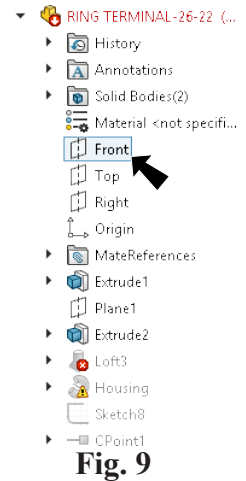



Fig. 9

E. Repair Loft - Guide Curve.

- Step 1. Expand **Loft3** in the Feature Manager, click **Sketch5** and click **Edit Sketch**  on the context toolbar, **Fig. 10**.

- Step 2. Delete Line in sketch, **Fig. 11**. To delete, select line and press **Delete** key.

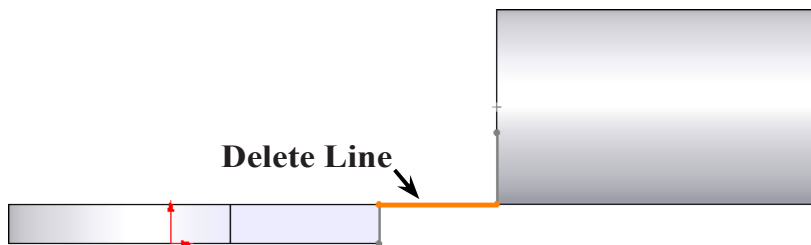


Fig. 11

- Step 3. Rotate view to view **rear face of ring extrude**, hold down middle mouse button (wheel) and drag to rotate view, **Fig. 12**.

- Step 4. Click **Line**  (L) on the Sketch toolbar.

- Step 5. Sketch a line below both features, **Fig. 12**.

- Step 6. **Right click graphics area and click Select** from menu to unselect Line tool.

- Step 7. **Ctrl click left endpoint of line and bottom line in sketch of Loft profile on rear face of ring extrude** to select both. Release Ctrl key

and click **Make Pierce**  on the context toolbar,

Fig. 13. Make Pierce adds a Pierce relation between both sketches.

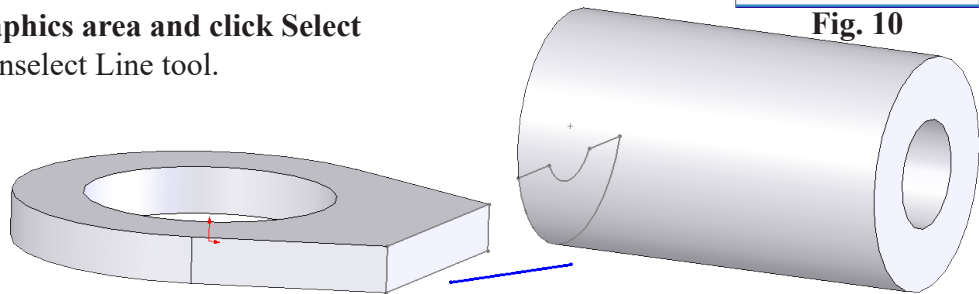


Fig. 12

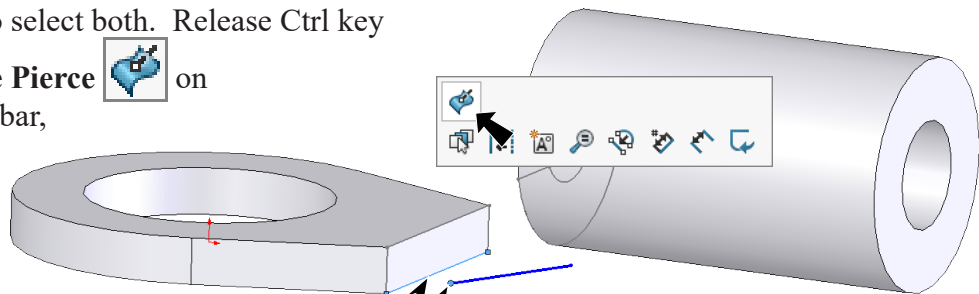


Fig. 13

Ctrl click endpoint and line

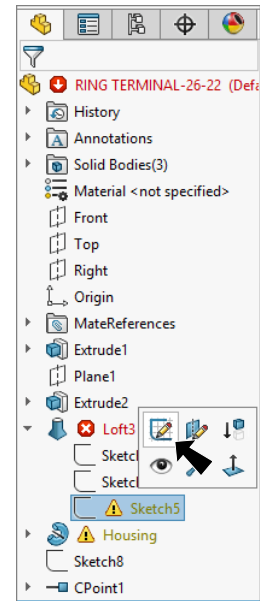

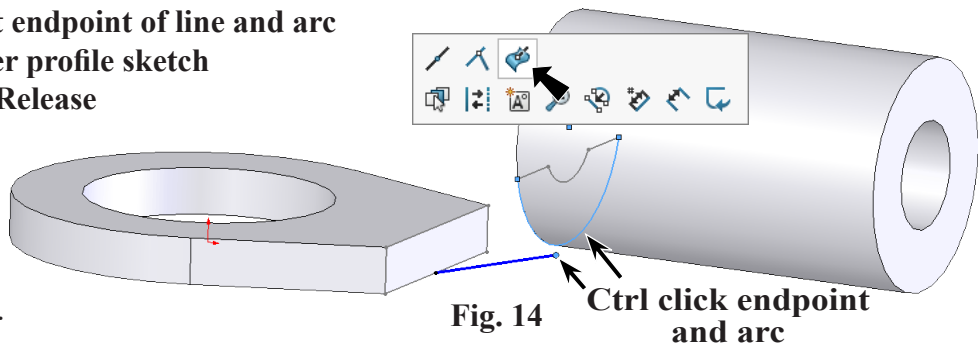


Fig. 10

Step 8. **Ctrl click right endpoint of line and arc on edge in other profile sketch** to select both. **Release Ctrl key and click Make**


Pierce  on the context toolbar, **Fig. 14.**




Step 9. Click **Exit Sketch**  on the Sketch toolbar.

Step 10. Save. Use **Ctrl-S.**

F. Scale.

Step 1. Click **Sketch8** in the Feature Manager and click **Roll Back**  from the context toolbar, **Fig. 16.**

Step 2. Click Insert Menu > Features > Scale.

Step 3. In the Scale Property Manager:
 under Scale Parameters, **Fig. 17**
 click **both solid bodies, Housing and Loft,**
Fig. 18
 under Scale about:
 select **Origin**
Scale Factor .76
 click OK .

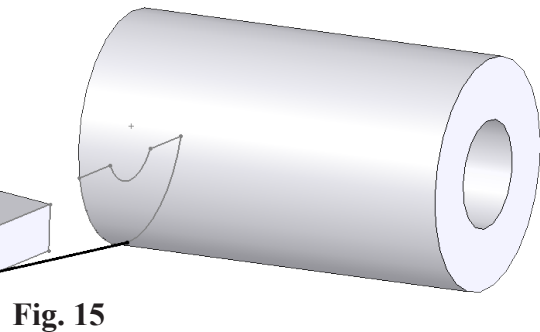


Fig. 15

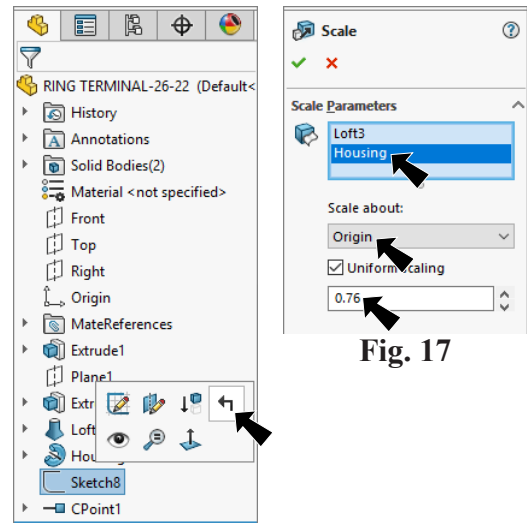


Fig. 16

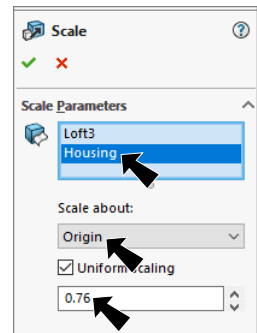


Fig. 17

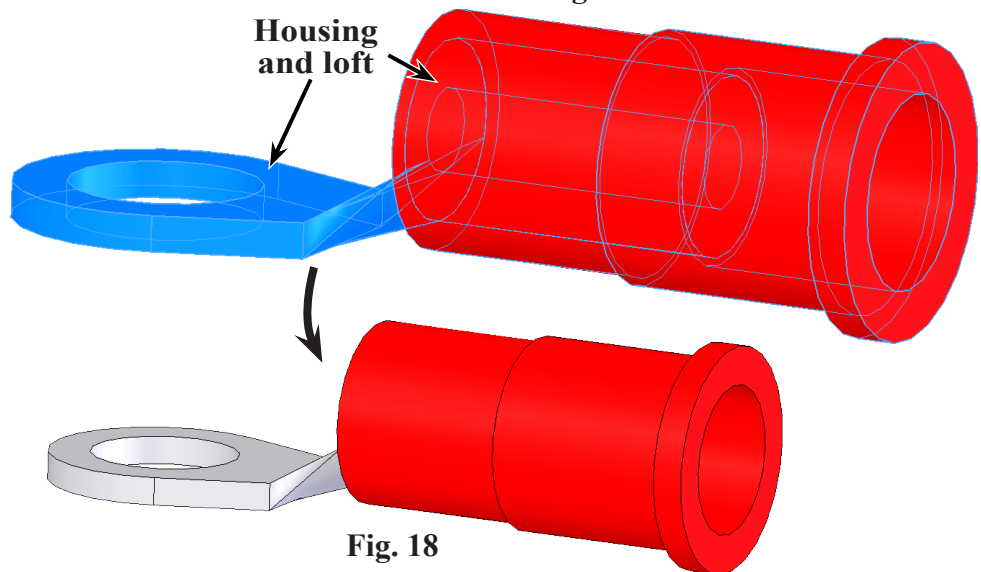





Fig. 18

G. Appearance.

Step 1. **Right click** in the Feature Manager and click **Roll to End** from menu, **Fig. 19**.

Step 2. Click the Housing, click **Appearance Call-out**  on the context toolbar and click **Housing** , **Fig. 20**.

Step 3. In the Appearances Property Manager:
under Color, **Fig. 21**
click the **yellow swatch**
click OK .

Step 4. Save. Use **Ctrl-S**.

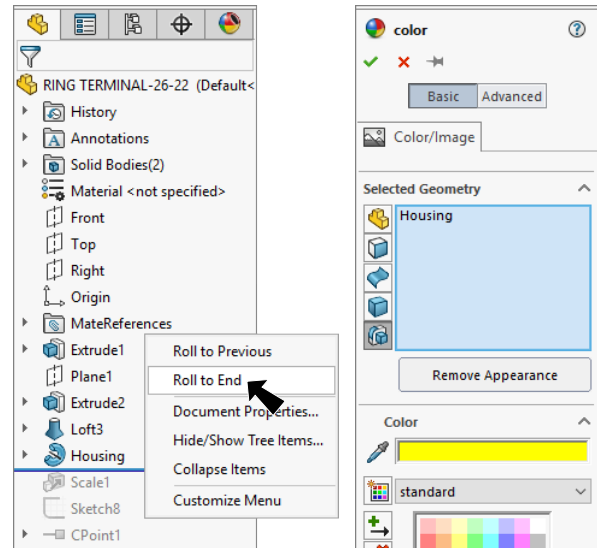


Fig. 19

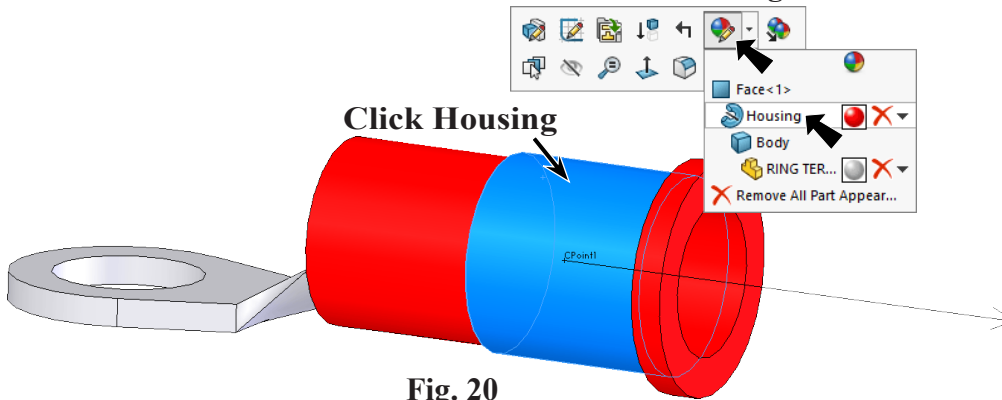


Fig. 20

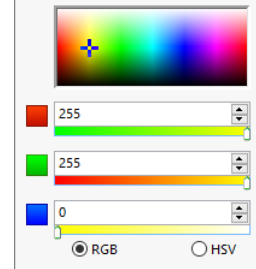


Fig. 21

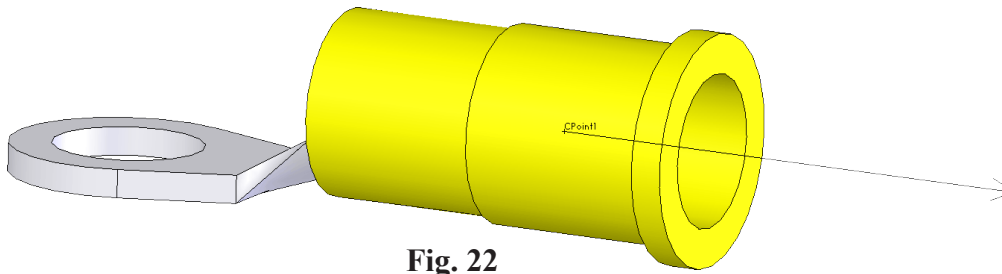


Fig. 22