### Connector Dimensions

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Conductor Size</th>
<th>Connector Dimensions (in, [mm])</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>YA8C41</td>
<td>8 AWG</td>
<td>B - Class B: C, Concentric</td>
<td>Compact, 1/4</td>
</tr>
<tr>
<td>YA8C42</td>
<td>8 AWG</td>
<td>B - Class B: C, Concentric</td>
<td>Compact, 1/4</td>
</tr>
<tr>
<td>YA8C43</td>
<td>10 AWG</td>
<td>B - Class B: C, Concentric</td>
<td>Compact, 1/4</td>
</tr>
<tr>
<td>YA8C44</td>
<td>12 AWG</td>
<td>B - Class B: C, Concentric</td>
<td>Compact, 1/4</td>
</tr>
</tbody>
</table>

### Color Code

<table>
<thead>
<tr>
<th>Color</th>
<th>Die Information</th>
<th>Mechanical</th>
<th>Hydraulic</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLUE</td>
<td>374</td>
<td>X8CART (2)</td>
<td>M834 (1)</td>
</tr>
<tr>
<td></td>
<td>U8CART (1)</td>
<td>U8CART (1)</td>
<td>U8CART (1)</td>
</tr>
</tbody>
</table>

### Notes:

1. All Hylugs™ accommodate U.S. standard washers.
2. Remove all excess Penetrox™ from connector and adjacent conductor prior to tapping.
3. UL listed and CSA certified wire connectors. Rated 75 C (AL7CU) for use with copper or aluminum conductor.
4. Approval applies to tin plated connectors only.
5. Dimensions in brackets [ ] are in millimeters rounded off to the nearest millimeter, unless otherwise noted, and are for reference only.
6. Add suffix "DT" to order lugs with crimp barrel sealed air tight inside the transition.
7. Catalog #PT6515 adaptor is required to use "U" dies in Y45 series tools.
8. Catalog #PUADP-1 adaptor is required to use "U" dies in Y46 series tools.
10. For use by customers that have this Hyprime™. No new Hyprimers™ are being processed.
11. Add suffix "U" to order lugs with undrilled tongue.

### Terminology:

**Uninsulated Compression Terminal**

Material: Aluminum tube.
### Catalog Number

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>CONDUCTOR SIZE</th>
<th>CONNECTOR DIMENSIONS-LINEAR MEASURE IN.[mm]</th>
<th>INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 3 2 1</td>
<td>ALUMINUM</td>
<td></td>
<td></td>
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<tr>
<td>SD073935</td>
<td>COPPER</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>STUD SIZE</td>
<td>NO. OF HOLES</td>
<td>H</td>
</tr>
<tr>
<td></td>
<td>1/4</td>
<td>1</td>
<td>1.75</td>
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#### Color Code

<table>
<thead>
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<th>Color Code</th>
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<th>HYDRAULIC</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>DIE INDEX</td>
<td>TYPE</td>
</tr>
<tr>
<td></td>
<td>OUR840</td>
<td>MD6</td>
</tr>
<tr>
<td></td>
<td>Y34A</td>
<td>Y34B</td>
</tr>
<tr>
<td></td>
<td>Y35,Y39</td>
<td>Y750, Y46</td>
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<tr>
<td></td>
<td>PAT750</td>
<td>Y45</td>
</tr>
<tr>
<td></td>
<td>Y48A</td>
<td>Y60</td>
</tr>
<tr>
<td></td>
<td>MECHANICAL</td>
<td>HYDRAULIC</td>
</tr>
<tr>
<td></td>
<td>MRC840AL</td>
<td>MY29-3</td>
</tr>
<tr>
<td></td>
<td>Y81KFT</td>
<td>PAT81KFT</td>
</tr>
<tr>
<td></td>
<td>PAT644</td>
<td>7/8&quot;</td>
</tr>
</tbody>
</table>

**NOTES:**

1. ALL HYLUGS™ ACCOMMODATE U.S. STANDARD WASHERS.
2. REMOVE ALL EXCESS PENETROX™ FROM CONNECTOR AND ADJACENT CONDUCTOR PRIOR TO TAPING.
3. UL LISTED AND CSA CERTIFIED WIRE CONNECTORS. RATED 90 C (AL9CU) FOR USE WITH COPPER OR ALUMINUM CONDUCTOR. APPROVAL APPLY TO TIN PLATED CONNECTORS ONLY.
4. CONNECTOR BARRELS PREFILLED WITH PENETROX™.
5. DIMENSIONS IN PARENTHESES ( ) ARE IN MILLIMETERS ROUNDED OFF TO THE NEAREST MILLIMETER, UNLESS OTHERWISE NOTED, AND ARE FOR REFERENCE ONLY.
6. ADD SUFFIX "DT" TO ORDER LUGS WITH CRIMP BARREL SEALED AIR TIGHT INSIDE THE TRANSITION.
7. CATALOG HYPRESS™ ADAPTOR REQUIRED TO USE "U" DIES IN Y45 SERIES TOOLS.
8. CATALOG HYPRESS™ ADAPTOR REQUIRED TO USE "U" DIES IN Y46 SERIES TOOLS.
9. Y35P3 INDENTOR ADAPTOR REQUIRED FOR "Y34PR" TYPE INDENTORS.
10. FOR USE BY CUSTOMERS THAT HAVE THIS HYPRESS™, NO NEW HYPRESS™ ARE BEING PROCESSED.
11. ADD SUFFIX "U" TO ORDER LUGS WITH UNDRILLED TONGUE.
12. ENLARGED BARREL MARKING VIEW.
<table>
<thead>
<tr>
<th>DRAWING NO.</th>
<th>SD073935</th>
</tr>
</thead>
</table>

### Connector Dimensions - Linear Measure (in. [mm])

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Conductor Size</th>
<th>Stud Size</th>
<th>No. of Holes</th>
<th>R</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>L</th>
<th>N</th>
<th>O.D.</th>
<th>Plating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y4CA41</td>
<td>4 AWG CLASS B</td>
<td>1/4</td>
<td>68, 47, 15, 3</td>
<td>68</td>
<td>47</td>
<td>15</td>
<td>3</td>
<td>68</td>
<td>47</td>
<td>15</td>
<td>3</td>
<td>68</td>
</tr>
<tr>
<td>Y4CA42</td>
<td>4 AWG CLASS B, C</td>
<td>5/16</td>
<td>68, 80, 67, 2</td>
<td>68</td>
<td>80</td>
<td>67</td>
<td>2</td>
<td>68</td>
<td>80</td>
<td>67</td>
<td>2</td>
<td>68</td>
</tr>
<tr>
<td>Y4CA43</td>
<td>4 AWG CLASS B, C</td>
<td>8/8</td>
<td>68, 68, 94, 4</td>
<td>68</td>
<td>68</td>
<td>94</td>
<td>4</td>
<td>68</td>
<td>68</td>
<td>94</td>
<td>4</td>
<td>68</td>
</tr>
<tr>
<td>Y4CA44</td>
<td>4 AWG CONCENTRIC</td>
<td>3/8</td>
<td>68, 80, 75, 3</td>
<td>68</td>
<td>80</td>
<td>75</td>
<td>3</td>
<td>68</td>
<td>80</td>
<td>75</td>
<td>3</td>
<td>68</td>
</tr>
<tr>
<td>Y4CA45</td>
<td>4 AWG CONCENTRIC</td>
<td>1/2</td>
<td>68, 68, 117, 5</td>
<td>68</td>
<td>68</td>
<td>117</td>
<td>5</td>
<td>68</td>
<td>68</td>
<td>117</td>
<td>5</td>
<td>68</td>
</tr>
</tbody>
</table>

### Use Instructions

1. All HYLUGs™ accommodate U.S. standard washers.
2. Remove all excess PENETROX™ from connector and adjacent conductor prior to taping.
3. Pull listed and CSA-certified wire connectors, rated 90°C (149°C) for use with copper or aluminum conductor.
4. Connector barrels prefilled with PENETROX™
5. Dimensions in brackets [ ] are in millimeters rounded off to the nearest millimeter, unless otherwise noted and are for reference only.
6. Do not suffix "UT" to order lugs with crimp barrel sealed air tight inside the transition.
7. Catalog NEOPRENE Aadapter is required to use "U" dies in Y45 series tools.
8. Catalog HYDAP-A adapter is required to use "A" dies in Y46 series tools.
9. CHAPRA index adapter required for "CHAPRA" type indentors.
10. For use by customers that have this HYPRESS™. No new HYPRESS™ are being processed.
11. Do not suffix "UT" to order lugs with unbriddled tongue.
12. Enlarged barrel marking view.

---

### Barrel Lettering View

- Color Code: GREEN
- Die Information: 375 162
- Type: TYP. LETTERING
- Die Index: 375
- Use Knurled Guide Lines for Crimp Spacing
- End Plug Color Coded

### Mechanical

- Dimensions: 1-1/2, 2, 3
- Lettering View: TYP. LETTERING AS SHOWN

---

### Project No.

- Catalog No: YA4CA-(SEE TABLE)
- Project #: -- SIZE
- Material: ALUMINUM TUBE

---

### Lettering View

- Dimensions: 1-1/2, 2, 3
- Lettering: TYP. LETTERING AS SHOWN

---

### Package Information

- Material: ALUMINUM TUBE
- Insulated Compression Terminal

---

### Contact Information

- TO ORDER BURNDY® PRODUCTS CALL UNITED STATES: 1-800-387-6487 (ALL OTHER PROVINCES: 1-800-346-4175 (LONDONDERRY, NH).
- P.WERTHMAN 6/19/95 SCALE: 2:1
- QA APPVL: D.VARIO 6/19/95
- CHECKER: S.F.P 8/01/72
NOTES:
1. ALL HYLUGS™ ACCOMMODATE U.S. STANDARD WASHERS
2. REMOVE ALL EXCESS PENETROX™ FROM CONNECTOR AND ADJACENT CONDUCTOR PRIOR TO TAPPING.
3. UL LISTED AND CSA CERTIFIED WIRE CONNECTORS. RATED 90 C (AL9CU) FOR USE WITH COPPER OR ALUMINUM CONDUCTOR.
4. CONNECTOR BARRELS PREFILLED WITH PENETROX™
5. DIMENSIONS IN BRACKETS [ ] ARE IN MILLIMETERS ROUNDED OFF TO THE NEAREST MILLIMETER, UNLESS OTHERWISE NOTED, AND ARE FOR REFERENCE ONLY.
6. ADD SUFFIX "DT" TO ORDER LUGS WITH CRIMP BARREL SEALED AIR TIGHT INSIDE THE TRANSITION.
7. CATALOG #PT6515 ADAPTOR IS REQUIRED TO USE "U" DIES IN Y45 SERIES TOOLS.
8. CATALOG #PUADP-1 ADAPTOR IS REQUIRED TO USE "U" DIES IN Y46 SERIES TOOLS.
9. Y35P3 INDENTOR ADAPTOR REQUIRED FOR "Y34PR" TYPE INDENTORS.
10. FOR USE BY CUSTOMERS THAT HAVE THIS HYPRESS™. NO NEW HYPRESS™ ARE BEING PROCESSED.
11. ADD SUFFIX "U" TO ORDER LUGS WITH UNDRILLED TONGUE.
12. ENLARGED BARREL MARKING VIEW.
**Color Code:**

- **Gold:** Die 471
- **Red:** Die 471
- **Green:** Die 471
- **Blue:** Die 471

**Material:** Uninsulated Compression Terminal

**Dimensions:**

- **Barrel Lettering View:**
  - Use knurled guide lines for crimp spacing
  - **Typ. lettering as shown**

**Notes:**

1. All Hylugs TM accommodate U.S. standard washers
2. Remove all excess Penetrox TM from connector and adjacent conductor prior to tapping.
3. UL listed and CSA certified wire connectors, rated 90 C (A19CU) for use with copper or aluminum conductor. Approval applies to tin-plated connectors only.
4. Connector barrels prefilled with Penetrox TM
5. Dimensions in brackets [ ] are in millimeters rounded off to the nearest millimeter, unless otherwise noted, and are for reference only.
6. Add suffix "DT" to order lugs with crimp barrel sealed and air tight inside the transition.
7. Catalog #PT6515 adaptor is required to use "U" dies in Y45 series tools.
8. Catalog #PT640-1 adaptor is required to use "U" dies in Y46 series tools.
9. E5SP inlet adaptor required for "Y34PR" type indentors.
10. For use by customers that have this Hypress TM. No new Hypress TM are being processed.
11. Add suffix "U" to order lugs with undrilled tongue.
12. Enlarged barrel marking view.

### Connector Dimensions - Linear Measure

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Conductor Size</th>
<th>Stud Size</th>
<th>No. of Holes</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>R</th>
<th>L</th>
<th>N</th>
<th>O</th>
<th>D</th>
<th>Plating</th>
</tr>
</thead>
<tbody>
<tr>
<td>YA1CA1</td>
<td>#1 AWG Class B</td>
<td>3/8</td>
<td>8</td>
<td>.91</td>
<td>.06</td>
<td>.10</td>
<td>.09</td>
<td>.56</td>
<td>.44</td>
<td>.59</td>
<td>.75</td>
<td>.84</td>
<td>Tin &lt;55</td>
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<tr>
<td>YA1CA2</td>
<td>#2 AWG Class B</td>
<td>1/4</td>
<td>10</td>
<td>.91</td>
<td>.07</td>
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<td>.57</td>
<td>.45</td>
<td>.76</td>
<td>.84</td>
<td>.84</td>
<td>Tin &lt;55</td>
</tr>
<tr>
<td>YA1CA3</td>
<td>#3 AWG Class B</td>
<td>3/16</td>
<td>13</td>
<td>.91</td>
<td>.08</td>
<td>.10</td>
<td>.09</td>
<td>.56</td>
<td>.44</td>
<td>.59</td>
<td>.75</td>
<td>.84</td>
<td>Tin &lt;55</td>
</tr>
</tbody>
</table>

**Catalog Number Information:**

- **Conductor Size:**
  - Aluminum
  - Copper

- **No. of Holes:**
  - 8

- **Plating:**
  - Tin <55

**TYP. LETTERING AS SHOWN:**

- Use knurled guide lines for crimp spacing

**DIE INFORMATION:**

<table>
<thead>
<tr>
<th>Color Code</th>
<th>Type</th>
<th>OUR840</th>
<th>MD6</th>
<th>Y44</th>
<th>Y54</th>
<th>Y60</th>
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</thead>
<tbody>
<tr>
<td>Gold</td>
<td>471</td>
<td>163</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Red</td>
<td>471</td>
<td>161</td>
<td></td>
<td></td>
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<tr>
<td>Green</td>
<td>471</td>
<td>162</td>
<td></td>
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<td>Blue</td>
<td>471</td>
<td>164</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**CATALOG NUMBER:**

- **Conductor Size:**
  - #1 AWG
  - Class B, C
  - Concentric
  - Compressed
  - Compact
  - SIW

- **Plating:**
  - Tin <55

**For Product Info:** http://www.burndy.com
NOTES:

1. ALL HYLUGS™ ACCOMMODATE U.S. STANDARD WASHERS

2. REMOVE ALL EXCESS PENETROX™ FROM CONNECTOR AND ADJACENT CONDUCTOR PRIOR TO TAPING.

3. ALL LISTED AND CSA CERTIFIED WIRE CONNECTORS RATED 90°C (AL9CU) FOR USE WITH COPPER OR ALUMINUM CONDUCTOR.

4. CONNECTOR BARRELS PREFILLED WITH PENETROX APPROVAL APPLY TO TIN PLATED CONNECTORS ONLY.

5. DIMENSIONS IN BRACKETS [ ] ARE IN MILLIMETERS ROUNDED OFF TO THE NEAREST MILLIMETER.

6. ADD SUFFIX "DT" TO ORDER LUGS WITH CRIMP BARREL SEALED AIR TIGHT INSIDE THE TRANSITION.

7. CATALOG #PT6515 ADAPTOR IS REQUIRED TO USE "U" DIES IN Y45 SERIES TOOLS.

8. CATALOG #PUADP-1 ADAPTOR IS REQUIRED TO USE "U" DIES IN Y46 SERIES TOOLS.

9. FOR USE BY CUSTOMERS THAT HAVE THIS HYPRESS™ NO NEW IMPRESSES™ ARE BEING PROCESSED.

10. ADD SUFFIX "U" TO ORDER LUGS WITH UNDRILLED TONGUE.

11. ENLARGED BARREL MARKING VIEW.

FOR PRODUCT INFO: http://www.burndy.com
1. Remove all excess Penetrox™ from connector and adjacent conductor prior to taping.

2. Connector barrels prefilled with Penetrox™.

3. Dimensions in brackets [ ] are in millimeters rounded off to the nearest millimeter, unless otherwise noted and are for reference only.

4. Add suffix "U" to order lugs with undrilled tongue.

5. All Hylugs™ accommodate U.S. standard washers.

6. For use by customers that have this Hypress™...no new Hypress™ are being processed.

7. Catalog # PT6515 adaptor is required to use "U" dies in Y45 series tools.

8. Catalog # PU49P-1 adaptor is required to use "U" dies in Y46 series tools.

9. Y36P3 inducer adaptor required for "Y34P" type indenters.

10. Aluminum tube material: 3/0 AWG AL9CU

For product info: http://www.burndy.com
<table>
<thead>
<tr>
<th>CONDUCTOR SIZE</th>
<th>CONNECTOR DIMENSIONS</th>
<th>INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALUMINUM</td>
<td>COPPER</td>
<td>STUD SIZE</td>
</tr>
<tr>
<td>1/2</td>
<td>1</td>
<td>1.45</td>
</tr>
<tr>
<td>1/2</td>
<td>2</td>
<td>1.45</td>
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<tr>
<td>3/8</td>
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<td>1.45</td>
</tr>
<tr>
<td>5/8</td>
<td>1</td>
<td>1.45</td>
</tr>
</tbody>
</table>

**NOTES:**
1. ALL HYLUG<sup>TM</sup> ACCOMMODATE U.S. STANDARD WASHERS.
2. REMOVE ALL EXCESS PENETROXTM FROM CONNECTOR AND ADJACENT CONDUCTOR PRIOR TO TAPING.
3. UL LISTED AND CSA CERTIFIED WIRE CONNECTORS. RATED 90 C (AL9CU) FOR USE WITH COPPER OR ALUMINUM CONDUCTOR.
4. ADD SUFFIX "DT" TO ORDER LUGS WITH CRIMP BARREL SEALED AIR TIGHT INSIDE THE TRANSITION.
5. DIMENSIONS IN BRACKETS [ ] ARE IN MILLIMETERS ROUNDED OFF TO THE NEAREST MILLIMETER, UNLESS OTHERWISE NOTED.
6. ADD SUFFIX "U" TO ORDER LUGS WITH UNDRILLED TONGUE.
7. FOR USE BY CUSTOMERS THAT HAVE THIS HYPRESS<sup>TM</sup> NO NEW HYPRESS<sup>TM</sup> ARE BEING PROCESSED.
8. USE NURLED GUIDE LINES FOR CRIMP SPACING.

<table>
<thead>
<tr>
<th>DRAWING NO.</th>
<th>BASE DRAWING NO.</th>
<th>TITLE</th>
<th>SHEET 1 OF 24</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 3 2 1</td>
<td>1234</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**TO ORDER BURNDY PRODUCTS CALL**
UNITED STATES: 1-800-346-4175 (LONDONDERRY, NH)
CANADA: 1-800-361-6975 (QUEBEC) 1-800-387-6487 (ALL OTHER PROVINCES)

FOR PRODUCT INFO: [http://www.burndy.com](http://www.burndy.com)
1. All Hylug™ accommodate U.S. standard washers.
2. Remove all excess Penetrox™ from connector and adjacent conductor prior to taping.
3. Ul listed and CSA certified wire connectors. Rated 90°C (AL9CU) for use with copper or aluminum conductor.
4. Connector barrels prefilled with Penetrox™. Approval applies to tin plated connectors only.
5. Dimensions in brackets [ ] are in millimeters rounded off to the nearest millimeter.
6. Add suffix "DT" to order lugs with crimp barrel sealed air tight inside the transition.
7. Catalog #PT6515 adapter is required to use "U" dies in Y45 series tools.
8. Catalog #PUADP-1 adapter is required to use "U" dies in Y46 series tools.
10. For use by customers that have this Hypress™. No new Hypress™ are being processed.
11. Ul listed with DLO copper clad aluminum conductor using Y644 and Y444 tools only.
12. Add suffix "U" to order lugs with undrilled tongue.
13. Enlarged barrel marking view.

For product info: http://www.burndy.com

To order Burndy products call 1-800-361-6975 (Quebec)

To order Burndy products call 1-800-387-6487 (All other provinces)

To order Burndy products call 1-800-346-4175 (Londonderry, NH)

Drawing No: SD073935

Catalog No: Y81KFT (2)

Material: Aluminum tube

Uninsulated Compression Terminal
A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

X

Y

Z

1. ALL HYLUG™ ACCOMMODATE U.S. STANDARD WASHERS.

2. REMOVE ALL EXCESS PENETROX™ FROM CONNECTOR AND ADJACENT CONDUCTOR PRIOR TO TAPING.

3. UL LISTED AND CSA CERTIFIED WIRE CONNECTORS. RATED 90°C (AL9CU) FOR USE WITH COPPER OR ALUMINUM CONDUCTOR.

4. CONNECTOR BARRELS PREFILLED WITH PENETROX™.

5. DIMENSIONS IN BRACKETS [ ] ARE IN MILLIMETERS ROUNDED OFF TO THE NEAREST MILLIMETER.

6. ADD SUFFIX "DT" TO ORDER LUGS WITH CRIMP BARREL SEALED AIR TIGHT INSIDE THE TRANSITION.

7. All HYLUG™ ACCOMMODATE U.S. STANDARD WASHERS.

8. REMOVE ALL EXCESS PENETROX™ FROM CONNECTOR AND ADJACENT CONDUCTOR PRIOR TO TAPING.

9. Y35P3 INDENTOR ADAPTOR REQUIRED FOR "Y34PR" TYPE INDENTORS.

10. FOR USE BY CUSTOMERS THAT HAVE THIS HYLUG™. NO NEW HYLUGS ARE BEING PROCESSED.

11. UL LISTED WITH DLO COPPER CLAD ALUMINUM CONDUCTOR USING Y644 AND Y444 TOOLS ONLY.

NOTES:

CODE

YA31A190 1/2 1.85

YA31A12 5/8 1.85

YA31A6 3/8

YA31A3 1/2

YA31A5 3/8 1.85

YA31A2 NONE FIG. 2

YA31A4 NONE FIG. 2

YA31A1

NUMBER

SD073935

DRAWING NO.

REV DATE DESCRIPTION ECO BY C'H'K.

CHECKER: S.F.P 8/01/72

DRAWN BY: E.S.K 7/21/72

MFG APPVL: -- --

DSN APPVL: R.B 8/02/72

MKT APPVL: P.WERTHMAN 6/18/95

SCALE: 1:1

FOR CRIMP SPACING

FOR PRODUCT INFO: http://www.burndy.com

USE KNURLED GUIDE LINES

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

X

Y

Z

1-800-387-6487 (ALL OTHER PROVINCES)

1-800-346-4175 (LONDONDERRY, NH)

1-800-361-6975 (QUEBEC)

1-800-354-7101 (UNITED STATES)

PAT644 (1)

Y644 (1)

PAT81KFT (3)

Y81KFT (3)

Y467 Y457 Y48BH7 Y607

P48BH-1 -- C35D(1)

U31ART (2)

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(2)

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(2)

(2)

(2)

(2)

(2)

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(2)
### Table: Connector Dimensions - Linear Measure

<table>
<thead>
<tr>
<th>ALUMINUM COPPER</th>
<th>COIL SIZE</th>
<th>NO. OF HOLES</th>
<th>R</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>I</th>
<th>L</th>
<th>N</th>
<th>O</th>
<th>D</th>
<th>PLATING</th>
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<tr>
<td>Y43240</td>
<td>400 kcmil Class B Concentric</td>
<td>5/8</td>
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<td>4.08</td>
<td>88</td>
<td>60</td>
<td>4.97</td>
<td>68</td>
<td>1.13</td>
<td>43</td>
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</tr>
<tr>
<td>Y43241</td>
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<td>88</td>
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<td>4.97</td>
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<td>Y43242</td>
<td>400 kcmil Class B Concentric</td>
<td>3/8</td>
<td>2.26</td>
<td>4.08</td>
<td>88</td>
<td>60</td>
<td>4.97</td>
<td>68</td>
<td>1.13</td>
<td>43</td>
<td></td>
<td>TIN</td>
</tr>
</tbody>
</table>

### Notes:
1. ALL HYLUG®™ ACCOMMODATE U.S. STANDARD WASHERS
2. REMOVE ALL EXCESS PENETROX™ FROM CONNECTOR AND ADJACENT CONDUCTOR PRIOR TO TAPPING.
3. UL LISTED AND CSA CERTIFIED WIRE CONNECTORS. RATED 90 C (AL9CU) FOR USE WITH COPPER OR ALUMINUM CONDUCTOR. APPROVAL APPLY TO TIN PLATED CONNECTORS ONLY.
4. CONNECTOR BARRELS PREFILLED WITH PENETROX™ FOR USE WITH COPPER OR ALUMINUM CONDUCTOR.
5. DIMENSIONS IN BRACKETS [ ] ARE IN MILLIMETERS ROUNDED OFF TO THE NEAREST MILLIMETER, UNLESS OTHERWISE NOTED, AND ARE FOR REFERENCE ONLY.
6. ADD SUFFIX "DT" TO ORDER LUGS WITH CRIMP BARREL SEALED AIR TIGHT INSIDE THE TRANSITION.
7. CATALOG #PT6515 ADAPTOR IS REQUIRED TO USE "U" DIES IN Y45 SERIES TOOLS.
8. CATALOG #PUADP-1 ADAPTOR IS REQUIRED TO USE "U" DIES IN Y46 SERIES TOOLS.
9. Y35P3 INDENTOR ADAPTOR REQUIRED FOR "Y34PR" TYPE INDENTORS.
10. FOR USE BY CUSTOMERS THAT HAVE THIS HYPRESS™. NO NEW HYPRESS™ ARE BEING PROCESSED.
11. ADD SUFFIX "U" TO ORDER LUGS WITH UNDRILLED TONGUE.
### Catalog Number

<table>
<thead>
<tr>
<th>Conductor Size</th>
<th>Connector Dimensions (Linear Measure in mm)</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Copper</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stud Size</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Notes:

1. All HYLUG™ accommodate U.S. standard washers.
2. Remove all excess Penetrox™ from connector and adjacent conductor prior to taping.
3. UL listed and CSA certified wire connectors, rated 90 C (AlCu), for use with copper or aluminum conductor. Approval apply to tin-plated connectors only.
5. Dimensions in brackets [ ] are in millimeters rounded off to the nearest millimeter unless otherwise noted and are for reference only.
6. No-ox-10 "A" coated to prevent formation of oxidation.
7. Can be mounted side by side on 4-hole hot bar pad.
8. Add suffix "DT" to order lugs with crimp barrel sealed air tight inside the transition.
9. Catalog #Y48PR adapter is required to use "U" dies in Y45 series tools.
10. Catalog #Y46T adapter is required to use "U" dies in Y46 series tools.
11. Y35SFS adapter required for "Y35FS" type indentors.
12. For use by customers that have this Hypress™. No new Hypress™ are being processed.
13. UL listed with DLO copper clad aluminum conductor using Y644 and Y444 tools only.
14. Add suffix "U" to order lugs with undrilled tongue.

#### Table:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Purchase</th>
<th>Material</th>
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<td>YA34A2</td>
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<tr>
<td>YA34A3</td>
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<td>YA34A5</td>
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<td>YA34A6</td>
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<td>YA34A7</td>
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<tr>
<td>YA34A8</td>
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<td></td>
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</tbody>
</table>

#### Diagram:

- Use milled guide lines for crimp spacing.
- Tip lettering as shown.
- End plug color coded to match crimp die.

#### Additional Information:

- US: 1-800-387-6487 (ALL OTHER PROVINCES)
- CANADA: 1-800-346-4175 (LONDONDERRY, NH)
- UNITED STATES: 1-800-361-6975 (QUEBEC)
- ENDS: 1-800-361-6975 (QUEBEC)
- BURNDY® Products Call
- For product info: http://www.burndy.com
- Die Information
- Mechanical
- Hydraulic
- Strip Length
CATALOG #PUADP-1 ADAPTOR IS REQUIRED TO USE "U" DIES IN Y46 SERIES TOOLS.

ADD SUFFIX "DT" TO ORDER LUGS WITH CRIMP BARREL SEALED AIR TIGHT INSIDE THE TRANSITION.

DIMENSIONS IN BRACKETS [ ] ARE IN MILLIMETERS ROUNDED OFF TO THE NEAREST MILLIMETER.

APPROVAL APPLY TO TIN PLATED CONNECTORS ONLY.

3 UL LISTED AND CSA CERTIFIED WIRE CONNECTORS. RATED 90 C (AL9CU) FOR USE WITH COPPER OR ALUMINUM CONDUCTOR.

15 ENLARGED BARREL MARKING VIEW.

NOTE:

1. ALL WIRETM ACCOMPANY U.S. STANDARD WIRE TM STANDARD CONDUCTOR AND ADJACENT CONDUCTOR PADS TO MATCH THE CONNECTOR.

2. REMOVE ALL EXCESS PAPER FROM CONNECTOR AND ADJACENT CONDUCTOR PADS TO MATCH THE CONNECTOR.

3. UL LISTED AND CSA CERTIFIED WIRE CONNECTORS. RATED 90 C (AL9CU) FOR USE WITH COPPER OR ALUMINUM CONDUCTOR.
**CONNECTOR BARRELS PREFILLED WITH PENETROX™**

**ALUMINUM CONDUCTOR. APPLY TO TIN PLATED CONNECTORS ONLY.**

**NOTES:**

1. ALL "LUGS™" ACCOMMODATE U.S. STANDARD WASHERS.

2. REMOVE ALL EXCESS PENETROX™ FROM CONNECTOR AND ADJACENT CONDUCTOR PRIOR TO TAPPING.

---

### Connector Dimensions - Linear Measure in ft.

<table>
<thead>
<tr>
<th>Connector Number</th>
<th>Conductor</th>
<th>Stud Size</th>
<th>No. of Holes</th>
<th>H</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>L</th>
<th>N</th>
<th>O.D. (&quot;)</th>
<th>Plating</th>
</tr>
</thead>
<tbody>
<tr>
<td>YA39A33</td>
<td>600 Kcmil</td>
<td>3/8</td>
<td>2</td>
<td>2.46</td>
<td>2.05</td>
<td>1.15</td>
<td>1.45</td>
<td>7.00</td>
<td>6.3</td>
<td>5.76</td>
<td>TIN</td>
</tr>
<tr>
<td>YA39A33</td>
<td>600 Kcmil</td>
<td>5/8</td>
<td>2</td>
<td>2.46</td>
<td>2.05</td>
<td>1.15</td>
<td>1.45</td>
<td>7.00</td>
<td>6.3</td>
<td>5.76</td>
<td>TIN</td>
</tr>
<tr>
<td>YA39A33</td>
<td>900 Kcmil</td>
<td>5/8</td>
<td>2</td>
<td>2.46</td>
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<td>1.15</td>
<td>1.45</td>
<td>7.00</td>
<td>6.3</td>
<td>5.76</td>
<td>TIN</td>
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<tr>
<td>YA39A33</td>
<td>900 Kcmil</td>
<td>3/8</td>
<td>2</td>
<td>2.46</td>
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<td>7.00</td>
<td>6.3</td>
<td>5.76</td>
<td>TIN</td>
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</tbody>
</table>

**--- END OF LETTERING VIEW FOR Y39A33 ---**
NOTES:
1. ALL HY Lug™ ACCOMMODATE U.S. STANDARD WASHERS
2. REMOVE ALL EXCESS PENETROX™ FROM CONNECTOR AND ADJACENT CONDUCTOR PRIOR TO TAPPING.
3. UL LISTED AND CSA CERTIFIED WIRE CONNECTORS. RATED 90 C (AL) FOR USE WITH COPPER OR ALUMINUM CONDUCTOR.
   APPROVAL APPLY TO TIN PLATED CONNECTORS ONLY.
4. Connector barrels prefilled with Penetrox™
5. Dimensions in brackets [ ] are in millimeters rounded off to the nearest millimeter. Unless otherwise noted, all are for reference only.
6. Can be mounted side by side on four hole Nema pad
7. Use only when customer requires 1.600 O.D. variation for compatibility with old installation tooling. Use 339-1 tubing (1.460 O.D.)
8. The YA39A4 is not UL listed or CSA certified.
9. Add suffix "DT" to order lugs with crimp barrel sealed air tight inside the transition.
10. Catalog "HY Lug" adaptor is required to use "U" dies in Y46 series tools.
11. Y35P3 Indentor adaptor required for "Y34P" type indentors.
12. For use by customers that have "HY Lug™". No new "HY Lug™" are being processed.
13. Use PAT644, Y644, or Y444 tooling only when installing 900 kcmil compact Al.
15. Add suffix "U" to order lugs with undrilled tongue.
16. SEE DEVELOPED LETTERING VIEW FOR CATALOGUE YA39AM2
### Catalog Number

<table>
<thead>
<tr>
<th>CONDUCTOR SIZE</th>
<th>STUD SIZE</th>
<th>NO. OF HOLES</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>ØK</th>
<th>L</th>
<th>N</th>
<th>O.D</th>
<th>PLATING</th>
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<tbody>
<tr>
<td>YA40A1 800 kcmil</td>
<td>5/8</td>
<td>1</td>
<td>2.56</td>
<td>2.5</td>
<td>1.67</td>
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<td>--</td>
<td>.65</td>
<td>6.12</td>
<td>.88</td>
<td>1.65</td>
<td>TIN</td>
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<tr>
<td>YA40A2 800 kcmil</td>
<td>1/2</td>
<td>2</td>
<td>2.56</td>
<td>2.25</td>
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<td>--</td>
<td>.56</td>
<td>7.41</td>
<td>.88</td>
<td>.60</td>
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**NOTES:**

1. **HYLUGS**™ ACCOMMODATE U.S. STANDARD WASHERS.
2. REMOVE ALL EXCESS PENETROX™ FROM CONNECTOR AND ADJACENT CONDUCTOR PRIOR TO TAPING.
3. UL LISTED AND CSA CERTIFIED WIRE CONNECTORS. RATED 90 C (AL90CU) FOR USE WITH COPPER OR ALUMINUM CONDUCTOR. APPROVAL APPLY TO TIN PLATED CONNECTORS ONLY.
4. CONNECTOR BARRELS PREFILLED WITH PENETROX™.
5. DIMENSIONS IN BRACKETS [ ] ARE IN MILLIMETERS ROUNDED OFF TO THE NEAREST MILLIMETER, UNLESS OTHERWISE NOTED, AND ARE FOR REFERENCE ONLY.
6. ADD SUFFIX "DT" TO ORDER LUGS WITH CRIMP BARREL SEALED AIR TIGHT INSIDE THE TRANSITION.
7. CATALOG HYDRO1 ADAPTOR REQUIRED TO USE "U" DIES IN Y45 SERIES TOOLS.
8. CATALOG HYDRO1 ADAPTOR REQUIRED TO USE "U" DIES IN Y46 SERIES TOOLS.
9. ADD SUFFIX "U" TO ORDER LUGS WITH UNDRILLED TONGUE.

---

**HYLUGS™**

**UNINSULATED COMPRESSION TERMINAL**

**MATERIAL:** ALUMINUM TUBE

**HOLE DESIGN**

**1-HOLE DESIGN**

**2-HOLE DESIGN**

**END PLUS COLOR CODE TO MATCH CRIMP DIE**
### Catalog Number

**Conductor Size**

<table>
<thead>
<tr>
<th>Aluminum</th>
<th>Copper</th>
</tr>
</thead>
<tbody>
<tr>
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</table>

**Connector Dimensions - Linear Measure (in.)**

- **SD073935**
- **HYLUG**

**Item No:** NA  
**Cat. No:** YA39A-(SEE TABLE)

**Drawn By:** E.S.K  
7/21/72  
**Checked By:** S.F.P  
8/01/72  
**DSN Appvl:** R.B  
8/02/72  
**Mfg Appvl:** -- --  
**QA Apvl:** D.VARIO  
6/18/95  
**Mkt Apvl:** P.WERTHMAN  
6/18/95

**Scale:** 1:1  
**Product Fam:** CM&R COMPRESSION

**Drawn By:** E.S.K  
7/21/72  
**Checked By:** S.F.P  
8/01/72  
**DSN Appvl:** R.B  
8/02/72  
**Mfg Appvl:** -- --  
**QA Apvl:** D.VARIO  
6/18/95  
**Mkt Apvl:** P.WERTHMAN  
6/18/95

**Scale:** 1:1  
**Product Fam:** CM&R COMPRESSION

**Project #:** --  
**Size:** --

**Document Type:** Sales  
**Crel Level:** Released

**Sheet:** 19 OF 24

---

**Notes:**

1. **All Hylugs** accommodate U.S. Standard Washers
2. **Remove all excess Penetrox** from connector and adjacent conductor prior to taping.
3. **UL Listed and CSA Certified Wire Connectors. Rated 90 C (ALSO Cu).**
4. **Connector Barrels filled with Penetrox.**  
   - Dimensions in brackets [ ] are in millimeters rounded off to the nearest millimeter.  
   - Unless otherwise noted, and are for reference only.
5. **Can be mounted side by side on four hole Nema pad**
6. **Add suffix "U" to order lugs with crimp barrel sealed air tight inside the transition.**
7. **Catalog #JPY10 Series Adaptor is required to use "U" dies in Y45 Series Tools.**
8. **Catalog #PJP10 Series Adaptor is required to use "U" dies in Y45 Series Tools.**
9. **Y55PA Inserter Adaptor required for "Y55PA" type Inverters.**
10. **For use by customers that have "NEW HYPRESS". No new Hypresses are being processed.**
11. **Add suffix "U" to order lugs with undrilled tongue.**

---

**Uninsulated Compression Terminal**

**Material:** Aluminum Tube

**TO ORDER BURNDY® PRODUCTS CALL**

**UNITED STATES:**
1-800-346-4175 (Londonderry, NH)

**CANADA:**
1-800-361-6975 (Quebec)
1-800-387-6487 (All Other Provinces)

**For Product Info:** [http://www.burndy.com](http://www.burndy.com)
### All Hylugs

1. **ALL HYLUGS** are UL Listed and CSA Certified wire connectors. Rated 90°C (AL9CU).

2. **Y35P3** INDENTOR ADAPTOR REQUIRED FOR "Y34PR" TYPE INDENTORS.

3. **CATALOG #PT6515** ADAPTOR IS REQUIRED TO USE "U" DIES IN Y45 SERIES TOOLS.

### Notes

1. **ALL HYLUGS** accommodate U.S. standard washers.
2. **ADD SUFFIX "DT" TO ORDER LUGS WITH CRIMP BARREL SEALED AIR TIGHT INSIDE THE TRANSITION.**
3. **ADDITIONAL BUS BAR LENGTHS ARE FOR REFERENCE ONLY.**

### Dimensions

- Dimensions in brackets [ ] are in millimeters rounded off to the nearest millimeter.
- Unless otherwise noted, and are for reference only.

### Color Code

<table>
<thead>
<tr>
<th>Color</th>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>Brown</td>
<td>302</td>
<td>INDENTOR</td>
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### Die Information

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<th>Die Code</th>
<th>Description</th>
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<tr>
<td>Y44441</td>
<td>&quot;A&quot; DIES</td>
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<tr>
<td>Y44442</td>
<td>&quot;A&quot; DIES</td>
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</tbody>
</table>

### Installation Tools

**BURNDY INSTALLATION TOOLS (YCRIMPS):**

- **Y4444H** (1)
- **Y4444I** (1)
- **Y4444S** (1)
- **Y4444T** (1)

### Dieless Installation

- **Y4444XT (1)**
- **Y4444YT (1)**
- **Y4444Y (1)**

### Strip Length

- **STRIP LENGTH:**

### Drawn By

- CHECKER: S.F.P. 8/01/72
- DRAWN BY: E.S.K. 7/21/72
<table>
<thead>
<tr>
<th>Item No.</th>
<th>Name</th>
<th>Color No.</th>
<th>Catalog Number</th>
<th>Description</th>
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<td>BROWN</td>
<td>Y34A</td>
<td>M6</td>
</tr>
<tr>
<td>YA45A2</td>
<td>1250 kcmil Class B</td>
<td>BROWN</td>
<td>Y34A</td>
<td>M6</td>
</tr>
<tr>
<td>YA45A3</td>
<td>1250 kcmil Class B</td>
<td>BROWN</td>
<td>Y34A</td>
<td>M6</td>
</tr>
<tr>
<td>YA45A4</td>
<td>1250 kcmil Class B</td>
<td>BROWN</td>
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<td>M6</td>
</tr>
</tbody>
</table>

**NOTES:**

1. ALL **HYLUG**™ ACCOMMODATE U.S. STANDARD WASHERS
2. REMOVE ALL EXCESS **PENTROX™** FROM CONNECTOR AND ADJACENT CONDUCTOR PRIOR TO TAPPING.
3. UL LISTED AND CSA CERTIFIED WIRE CONNECTORS, RATED 70°C (AL7CU) FOR USE WITH COPPER OR ALUMINUM CONDUCTOR. APPROVAL APPLY TO TIN PLATED CONNECTORS ONLY.
4. CONNECTOR BARRELS PREFILLED WITH **PENTROX™**
5. DIMENSIONS IN BRACKETS ([ ]) ARE IN MILLIMETERS ROUNDED OFF TO THE NEAREST MILLIMETER, UNLESS OTHERWISE NOTED, AND ARE FOR REFERENCE ONLY.
6. ADD SUFFIX "DT" TO ORDER LUGS WITH CRIMP BARREL SEALED AIR TIGHT INSIDE THE TRANSITION.
7. CATALOG #PT6515 ADAPTOR IS REQUIRED TO USE "U" DIES IN Y45 SERIES TOOLS.
8. CATALOG #PUADP-1 ADAPTOR IS REQUIRED TO USE "U" DIES IN Y46 SERIES TOOLS.
9. Y35P3 INDENTOR ADAPTOR REQUIRED FOR "Y34PR" TYPE INDENTORS.
10. FOR USE BY CUSTOMERS THAT HAVE THIS **HYPRESS™**. NO NEW **HYPRESS™** ARE BEING PROCESSED.
11. UL LISTED WITH OLD COPPER CLAD ALUMINUM CONDUCTOR USING Y6446/BH AND Y444/PAT44 TOOLS ONLY.
12. ADD SUFFIX "U" TO ORDER LUGS WITH UNDRILLED TONGUE.
### Table of Conductor Sizes and Dimensions

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Conductor Size</th>
<th>Aluminum</th>
<th>Copper</th>
<th>Stud Size</th>
<th>No. of Holes</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>L</th>
<th>N</th>
<th>O.D.</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y46A1</td>
<td>1500 kcmil</td>
<td>Class B</td>
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**Notes:**

1. All Hylug™ accommodate U.S. standard washers.
2. Remove all excess Penetrox™ from connector and adjacent conductor prior to tapping.
3. All listed and CSA-certified wire connectors are rated for use with copper or aluminum conductor.
4. CATALOG #PT6515 ADAPTOR IS REQUIRED TO USE "U" DIES IN Y45 SERIES TOOLS.
5. CATALOG #PUADP-1 ADAPTOR IS REQUIRED TO USE "U" DIES IN Y46 SERIES TOOLS.
6. Y35P3 INDENTOR ADAPTOR REQUIRED FOR "Y34PR" TYPE INDENTORS.
7. For use by customers that have Hypress™ No new Hypresses™ are being processed.
8. Add suffix "U" to order lugs with undrilled tongue.
### Catalog Number

<table>
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<tr>
<th>Conduct Size</th>
<th>Connector Dimensions: Linear Measure in.</th>
<th>Information</th>
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#### Color Code

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#### Notes:

1. All Hylugs™ accommodate U.S. standard washers.
2. Remove all excess Penetrox™ from connector and adjacent conductor prior to taping.
3. UL listed and CSA certified wire connectors. Rated 70°C (70°C) for use with copper or aluminum conductor.
4. Dimensions in brackets [ ] are in millimeters rounded off to the nearest millimeter. Unless otherwise noted, are for reference only.
5. Connector barrels prefilled with Penetrox™.
6. End plug color codes to match crimp die.
7. Connector barrels prefilled with Penetrox™.
8. Dimensions in brackets [ ] are in millimeters rounded off to the nearest millimeter. Unless otherwise noted, are for reference only.
9. For use by customers that have this Hypress™. No new Hypresses™ are being processed.
10. Add suffix "U" to order lugs with undrilled tongue.

---

**HYLUG**

**Item No. 1A**

**TO ORDER BURNDY PRODUCTS CALL**

**UNITED STATES:** 1-800-346-4175 (LONDONDERRY, NH)

**CANADA:** 1-800-361-6975 (QUEBEC)

**ALL OTHER PROVINCES:** 1-800-387-6487

**FOR PRODUCT INFO:** [http://www.burndy.com](http://www.burndy.com)
**Catalog Number**
- YA48A1
- YA48A2
- YA48A3
- YA48A4
- YA48A5
- YA48A6
- YA48A8

**Conductor Size**
- 2000 kcmil
- Class B
- Concentric
- Compressed
- Compact

**Connector Dimensions**

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**Notes:**
1. ALL HYLUG™ ACCOMMODATE U.S. STANDARD WASHERS
2. REMOVE ALL EXCESS PENETROXTM FROM CONNECTOR AND ADJACENT CONDUCTOR PRIOR TO TAPPING.
3. UL LISTED AND CSA CERTIFIED WIRE CONNECTORS RATED 70C (AL7CU) FOR USE WITH COPPER OR ALUMINUM CONDUCTOR.
4. APPROVAL APPLY TO TIN PLATED CONNECTORS ONLY.
5. CONNECTOR BARRELS PREFILLED WITH PENETROXTM
6. DIMENSIONS IN BRACKETS [] ARE IN MILLIMETERS ROUNDED OFF TO THE NEAREST MILLIMETER unless otherwise noted, and are for reference only.
7. ADD SUFFIX "DT" TO ORDER LUGS WITH CRIMP BARREL SEALED AIR TIGHT INSIDE THE TRANSITION.
8. THIS CONNECTOR DESIGNED TO BE WELDED TO AN ALUMINUM BUS AND WILL HAVE A BARE FINISH AND NO PENETROX
9. CATALOG H3P655 ADAPTOR IS REQUIRED TO USE "U" DIES IN Y45 SERIES TOOLS.
10. CATALOG H3P654-F ADAPTOR IS REQUIRED TO USE "U" DIES IN Y46 SERIES TOOLS.
11. Y3SP3 INDUCTOR ADAPTOR REQUIRED FOR "Y34PR" TYPE INDUCTORS.
12. FOR USE BY CUSTOMERS THAT HAVE THIS HYPRESS™ NO NEW HYPRESS™ ARE BEING PROCESSED.
13. ADD SUFFIX "U" TO ORDER LUGS WITH UNDRILLED TONGUE.