

Compression Connections

BURNDY®

Aluminum Compression – Tin Plated – For Aluminum & Copper Conductors

C-116

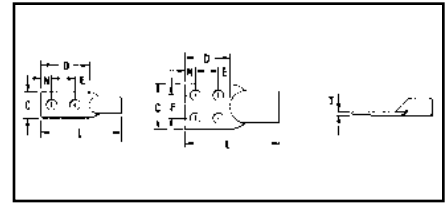
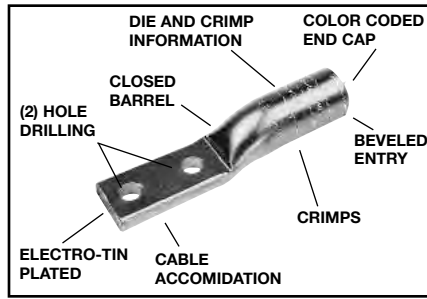
TYPE YA-A

HYLUG™

UNINSULATED ALUMINUM COMPRESSION TERMINAL FOR ALUMINUM AND COPPER CONDUCTORS

2-HOLE AND 4-HOLE DESIGNS

UL Listed 90° C, 600 Volts to 35 kV◆



Type YA-A 2- and 4-hole pads inhibit connector rotation and increase area contact. These aluminum terminals have the same design features and benefits as the 1-hole YA-A

with an added stud hole for a more secure termination to various types of equipment pads. They are dual-rated for use on both aluminum and copper conductors.

| Catalog Number | Code Conductor | Stud Size | No. of Holes in Pad | Dimensions | | | | | | | Installation Tooling ▲ | | | | | Wire Strip Length |
|----------------|-----------------------------------|------------|---------------------|------------|------|-------|------|------|--------|--------|------------------------|---|--------------------------|------------|-----------|-------------------|
| | | | | C | D | E & F | L | N | T REF. | Z Min. | Dieless (# of crimps) | | Y35, Y39, Y750, Y46* | | Die Index | |
| | | | | | | | | | | | Mechanical Tooling | Hydraulic HYPRESS | Die Number (# of crimps) | Color Code | | |
| YA2CA9 | 2 str. | 1/2 | 2-NEMA | .88 | 3.11 | 1.75 | 4.73 | .63 | .16 | .73 | MY29-3 (1) | Y644HS (1) Y81KFT (1) Y81KFTMBH (1) PAT81KFT-18V (1) | U2CABT (1) | Pink | 348 | 1-1/8" |
| YA25A5 | 1/0 str. | 3/8 | 2 | .82 | 2.24 | 1.06 | 3.73 | .63 | .21 | .55 | MY29-3 (1) | Y644HS (1) Y81KFT (2) Y81KFTMBH (2) PAT81KFT-18V (2) | U25ART (1) | Tan | 296 | 1-1/16" |
| YA25A7 | | 1/2 | 2-NEMA | 1.03 | 3.10 | 1.75 | 4.59 | .63 | .17 | .72 | | | | | | |
| YA26A3 | 2/0 str. | 1/2 | 2-NEMA | 1.03 | 3.11 | 1.75 | 4.78 | .63 | .20 | .73 | MY29-3 (2) | Y644HS (1) Y81KFT (2) Y81KFTMBH (2) PAT81KFT-18V (2) | U26ART (2) | Olive | 297 | 1-3/8" |
| YA26A5 | | 3/8 | 2 | .92 | 1.89 | 1.00 | 3.56 | .44 | .24 | .45 | | | | | | |
| YA27A5 | 3/0 str. | 1/2 | 2-NEMA | 1.04 | 3.12 | 1.75 | 5.02 | .63 | .26 | .74 | MY29-3 (2) | Y644HS (1) Y81KFT (2) Y81KFTMBH (2) PAT81KFT-18V (2) | U27ART (2) | Ruby | 467 | 1-1/2" |
| YA27A7 | | 3/8 | 2 | 1.04 | 1.89 | 1.00 | 3.79 | .44 | .26 | .45 | | | | | | |
| YA28A5 | 4/0 str. | 1/2 | 2-NEMA | 1.17 | 3.11 | 1.75 | 5.19 | .63 | .30 | .73 | MY29-3 (2) | Y644HS (1) Y81KFT (2) Y81KFTMBH (2) PAT81KFT-18V (2) | U28ART (2) | White | 298 | 1-5/8" |
| YA28A7 | | 3/8 | 2 | 1.17 | 1.89 | 1.00 | 3.97 | .44 | .30 | .45 | | | | | | |
| YA29A3 | 250 kcmil | 1/2 | 2-NEMA | 1.26 | 3.11 | 1.75 | 5.28 | .63 | .33 | .73 | MY29-3 (2) | Y644HS (1) Y81KFT (2) Y81KFTMBH (2) PAT81KFT-18V (2) | U29ART (2) | Red | 324 | 1-5/8" |
| YA29A5 | | 3/8 | 2 | 1.26 | 1.89 | 1.00 | 4.06 | .44 | .33 | .45 | | | | | | |
| YA30A3 | 300 kcmil | 1/2 | 2-NEMA | 1.38 | 3.11 | 1.75 | 5.69 | .63 | .36 | .73 | MY29-3 (2) | Y644HS (1) Y81KFT (2) Y81KFTMBH (2) PAT81KFT-18V (2) | U30ART (2) | Blue | 470 | 1-3/4" |
| YA30A5 | | 3/8 | 2 | 1.38 | 1.89 | 1.00 | 5.64 | .44 | .36 | .45 | | | | | | |
| YA31A5 | 350 kcmil | 3/8 | 2 | 1.52 | 1.89 | 1.00 | 4.85 | .44 | .39 | .45 | MY29-3 (2) | Y644HS (1) Y81KFT (3) Y81KFTMBH (3) PAT81KFT-18V (3) | U31ART (2) | Brown | 299 | 2-1/8" |
| YA31A3 | | 1/2 | 2-NEMA | 1.52 | 3.11 | 1.75 | 6.07 | .63 | .39 | .73 | | | | | | |
| YA32A5 | 400 kcmil | 3/8 | 2 | 1.62 | 1.89 | 1.00 | 4.93 | .44 | .43 | .94 | MY29-3 (2) | Y644HS (1) Y81KFT (3) Y81KFTMBH (3) PAT81KFT-18V (3) | U32ART (4) | Green | 472 | 2" |
| YA34A3 | 500 kcmil | 1/2 | 2-NEMA | 1.62 | 3.15 | 1.75 | 6.80 | .63 | .46 | .77 | MY29-3 (2) | Y644HS (1) Y81KFT (4) Y81KFTMBH (4) PAT81KFT-18V (4) | U34ART (4) | Pink | 300 | 2-5/8" |
| YA34A5 | | 3/8 | 2 | 1.80 | 1.89 | 1.00 | 5.54 | .44 | .46 | .45 | | | | | | |
| YA36A3 | 600 kcmil | 1/2 | 2-NEMA | 1.62 | 3.15 | 1.75 | 7.09 | .63 | .52 | .77 | MY29-3 (2) | Y644HS (1) Y81KFT (4) Y81KFTMBH (4) PAT81KFT-18V (4) | U36ART (4) | Black | 473 | 2-7/8" |
| YA36A5 | | 3/8 | 2 | 1.97 | 1.89 | 1.00 | 5.83 | .44 | .52 | .45 | | | | | | |
| YA39A7 | 700/750 kcmil 900 Compact AL + | 3/8 | 2 | 2.05 | 1.89 | 1.00 | 5.81 | .44 | .43 | .45 | MY29-3 (2) | Y644HS (1) Y81KFT (4) Y81KFTMBH (4) PAT81KFT-18V (4) | U39ART-2 (4) | Yellow | 936 | 2-7/8" |
| YA39A5 | | 1/2 | 2-NEMA | 1.62 | 3.15 | 1.75 | 7.07 | .63 | .43 | .77 | | | | | | |
| YA39AM2 | 900 Compact AL + | 1/2 | 2-NEMA | 1.69 | 3.12 | 1.75 | 7.31 | .63 | .57 | .74 | MY29-3 (2) | Y644HS (1) Y81KFT (4) Y81KFTMBH (4) PAT81KFT-18V (4) | P39ART** (4) | Red | 301 | 2-7/8" |
| YA44A3 | | 1000 kcmil | 1/2 | 2-NEMA | 1.65 | 3.15 | 1.75 | 7.76 | .63 | .66 | | | | | | |
| YA45A5 | 1250 kcmil | 1/2 | 2-NEMA | 1.65 | 3.15 | 1.75 | 7.76 | .63 | .66 | .77 | MY29-3 (2) | Y644HS (1) Y81KFT (4) Y81KFTMBH (4) PAT81KFT-18V (4) | P44ART** (4) | Brown | 302 | 3" |
| YA46A3 | 1500 kcmil | 1/2 | 2-NEMA | 3.09 | 3.16 | 1.75 | 8.75 | .63 | .81 | .78 | — | — | P44ART** (4) | Brown | 302 | 3" |
| YA46A5 | 1500 kcmil | 1/2 | 4-NEMA | 3.09 | 3.16 | 1.75 | 8.75 | .63 | .81 | .78 | — | — | L46ART (2) | Red | 478 | 2-3/4" |
| YA48A3 | 2000 kcmil | 1/2 | 2-NEMA | 3.57 | 3.11 | 1.75 | 8.49 | .63 | .90 | .73 | — | — | L48ART (2) | Red | 479 | 4-1/8" |

- Contact BURNDY® or conductor, stud sizes and hole drillings not shown.
- ▲ See tooling section of this catalog for complete tool and die listings.
- ‡ Use Y60 BHU HYPRESS™ with L46ART and L48ART die sets.
- 90° C Rated.

Y644HS DIELESS HYPRESS™ RANGE-TAKING CAPABILITIES

The following size HYDENT™ lugs and two way splices, when crimped with the Y644HS DIELESS HYPRESS™ tool, produce the following range taking capabilities:

- * Use PUADP-1 adaptor with U dies in Y46 HYPRESS™.
- ** P39ART and P44ART die sets for use with Y46 HYPRESS™ only. PUADP-1 adapter not required.
- + Tested with Y644HS and PAT644 dieless tools only and

- not UL Listed with any tool on 900 Compact AL.
- ◆ For applications greater than 2000 Volts consult cable manufacturer for voltage stress relief instructions.
- Note: All dimensions shown are for reference only.

| Aluminum Connectors | | | | | |
|---------------------|---------------------|--------------------|---------------------|--------------------|---------------------|
| Standard Wire Size | Expanded Wire Range | Standard Wire Size | Expanded Wire Range | Standard Wire Size | Expanded Wire Range |
| #6 AWG | #6 AWG | 1/0 AWG | 1/0 - #1 AWG | 250 kcmil | 250 kcmil - 1/0 AWG |
| #4 AWG | #4 - #6 AWG | 2/0 AWG | 2/0 - #1 AWG | 300 kcmil | 300 kcmil - 2.0 AWG |
| #2 AWG | #2 - #6 AWG | 3/0 AWG | 3/0 - #1 AWG | 350 kcmil | 350 kcmil - 3/0 AWG |
| #1 AWG | #1 - #2 AWG | 4/0 AWG | 4/0 - #1 AWG | 400 kcmil | 400 kcmil - 4/0 AWG |
| | | | | 500 kcmil | 500 kcmil - 4/0 AWG |
| | | | | 600 kcmil | 600 - 250 kcmil |
| | | | | 750 kcmil | 750 - 500 kcmil |