

TYPE YA-A

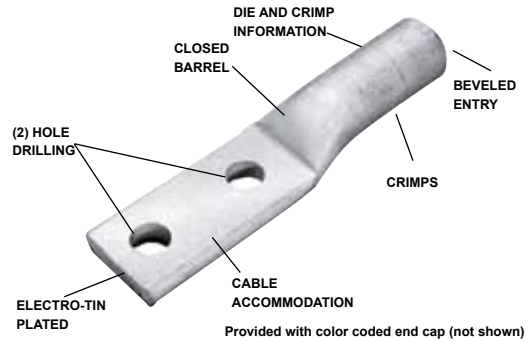
HYLUG™

UNINSULATED ALUMINUM COMPRESSION TERMINAL FOR ALUMINUM AND COPPER CONDUCTORS

2-HOLE AND 4-HOLE DESIGNS

UL Listed 90° C, Up to 35 kV ♦

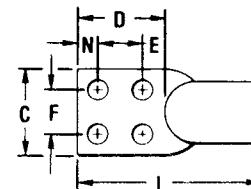
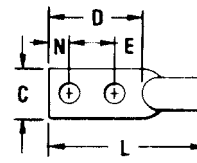
Type YA-A 2- and 4-hole pads inhibit connector rotation and increase area contact. These aluminum terminals have the same design features and benefits as the 1-hole YA-A with an added stud hole for a more secure termination to various types of equipment pads. They are dual-rated for use on both aluminum and copper conductors.



NOTE: Field bending straight lugs to achieve an angular connection will void UL Listing / CSA Certifications and BURNDY will not be liable for the connection.

Features & Benefits

- Aluminum terminals are dual rated to accommodate both copper and aluminum wire and are indicated with AL-CU on the connector
 - AL9CU indicates the terminal can accommodate aluminum and copper wire and is UL Listed 90°C, up to 35kV
 - AL7CU indicates the terminal can accommodate aluminum and copper wire and is UL Listed 75°C, up to 35kV
- Barrel is designed with an internal chamfer at the wire entry to ensure smooth insertion of the wire, preventing possible damaging of the wire strands during insertion
- 45° and 90° angular lugs are available; please contact Customer Service
- Electro-tin plated unless otherwise specified to reduce galvanic corrosion (bimetallic) and resist corrosive elements
- Connectors are clearly marked with wire size, die index, color code, and crimp locations bands
- Factory pre-filled with PENETROX™ A13 oxide inhibitor
- Color coded end caps are factory inserted in the barrels to match the die color code; prevent foreign materials from entering the barrel
- Aluminum oxidation is not easily detected but causes resistance in a connection; it is imperative the proper preparation takes place prior to making an aluminum-to-aluminum connection



Y644HSXT DIELESS HYPRESS™ RANGE-TAKING CAPABILITIES

The following size HYDENT™ lugs and two way splices, when crimped with the Y / PAT644 DIELESS HYPRESS™ tool, produce the following range taking capabilities:

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

Compression Connections

BURNDY®

Aluminum Compression — Tin Plated — For Aluminum & Copper Conductors

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 ♦

(Continued)



AL9CU



NOTE: Field bending straight lugs to achieve an angular connection will void UL Listing / CSA Certifications and BURNDY will not be liable for the connection.

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	
											Mech. Tooling	Hydraulic HYPRESS	Die Number (# of crimps)	Color Code		
YA2CA9	2 str.	1/2	2	0.88	3.11	1.75	4.73	0.63	0.16	0.73	MY29-3 (1)	Y / PAT644 (1) Y / PAT81KFT (1)	U2CABT (1)	Pink	348	1-1/8
YA25A7	1/0 str.	1/2	2	1.03	3.10	1.75	4.59	0.63	0.17	0.72	MY29-3 (1)	Y / PAT644 (1) Y / PAT81KFT (2)	U25ART (1)	Tan	296	1-1/16
YA25A5		3/8	2	0.82	2.24	1.06	3.73	0.63	0.21	0.55						
YA26A3	2/0 str.	1/2	2	1.03	3.11	1.75	4.78	0.63	0.20	0.73	MY29-3 (2)	Y / PAT644 (1) Y / PAT81KFT (2)	U26ART (2)	Olive	297	1-3/8
YA26A5		3/8	2	0.92	1.89	1.00	3.56	0.44	0.24	0.45						
YA27A7	3/0 str.	3/8	2	1.04	1.89	1.00	3.79	0.44	0.26	0.45	MY29-3 (2)	Y / PAT644 (1) Y / PAT81KFT (2)	U27ART (2)	Ruby	467	1-1/2
YA27A5		1/2	2	1.04	3.06	1.75	5.02	0.63	0.26	0.74						
YA28A7	4/0 str.	3/8	2	1.17	1.89	1.00	3.97	0.44	0.30	0.45	MY29-3 (2)	Y / PAT644 (1) Y / PAT81KFT (2)	U28ART (2)	White	298	1-5/8
YA28A5		1/2	2	1.17	3.11	1.75	5.19	0.63	0.30	0.73						
YA29A5	250 kcmil	3/8	2	1.26	1.89	1.00	4.06	0.44	0.33	0.45	—	Y / PAT644 (1) Y / PAT81KFT (2)	U29ART (2)	Red	324	1-5/8
YA29A3		1/2	2	1.26	3.11	1.75	5.28	0.63	0.33	0.73						
YA30A5	300 kcmil	3/8	2	1.38	1.89	1.00	4.42	0.44	0.36	0.45	—	Y / PAT644 (1) Y / PAT81KFT (2)	U30ART (2)	Blue	470	1-3/4
YA30A3	4/0 AWG CCA DLO (329/22)	1/2	2	1.38	3.11	1.75	5.64	0.63	0.36	0.73						
YA31A5	350 kcmil	3/8	2	1.52	1.89	1.00	4.85	0.44	0.39	0.45	—	Y / PAT644HS (1) Y / PAT81KFT (3)	U31ART (2)	Brown	299	2-1/8
YA31A3	250 kcmil CCA DLO (399/22)	1/2	2	1.52	3.11	1.75	6.07	0.63	0.39	0.73						
YA32A5	400 kcmil	3/8	2	1.62	1.89	1.00	4.93	0.44	0.43	0.45	—	Y / PAT644HS (1) Y / PAT81KFT (3)	U32ART (4)	Green	472	2
YA32A3		1/2	2	1.62	3.11	1.75	6.15	0.63	0.43	0.73						
YA34A5	500 kcmil	3/8	2	1.80	1.89	1.00	5.54	0.44	0.46	0.45	—	Y / PAT644 (1) Y / PAT81KFT (4)	U34ART (4)	Pink	300	2-5/8
YA34A8	350 kcmil CCA DLO (551/22)	1/2	2	1.80	3.15	1.75	6.77	0.63	0.46	0.77						
YA36A5	600 kcmil	3/8	2	1.97	1.89	1.00	5.64	0.69	0.52	0.45	—	Y / PAT644HS (1) Y / PAT81KFT (4)	U36ART (4)	Black	473	2-7/8
YA36A17	500 kcmil CCA DLO (779/22) *900 Compact AL	1/2	2	1.97	3.15	1.75	7.06	0.63	0.52	0.77						

• Contact BURNDY® for 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.

* 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 Y644HSXT 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.

▲ U die for 900 AL only

▲▲ 75° C Rated

Note: All dimensions shown are for reference only.

Compression Connections

BURNDY®

Aluminum Compression — Tin Plated — For Aluminum & Copper Conductors

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 ♦

(Continued)



AL9CU



NOTE: Field bending straight lugs to achieve an angular connection will void UL Listing / CSA Certifications and BURNDY will not be liable for the connection.

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		
											Mech. Tooling	Hydraulic HYPRESS	Die Number (# of crimps)	Color Code			
YA39A7	700 - 750 kcmil	3/8	2	2.05	1.89	1.00	5.81	0.44	0.43	0.45	—	Y / PAT644 (1) Y / PAT81KFT (4)	U39ART-2 (4)	Yellow	936	2-7/8	
YA39A13	+900 kcmil	1/2	2	2.05	3.15	1.75	7.04	0.63	0.43	0.77			P39ART** (4)	Red	301	2-7/8	
YA39AM2	Class B Compact Only 600 kcmil CCA DLO (925/22)	1/2	2	1.69	3.12	1.75	7.31	0.63	0.57	0.74			P44ART** (4)	Brown	302	3	
YA42A7	900 kcmil AL	3/8	2	2.14	3.13	1.00	5.96	0.44	0.39	0.45	—	Y / PAT644 (2)	U42ART (4)^	Gray	303	2-7/8	
YA42A5	600 kcmil Cu	1/2	2	1.62	3.13	1.75	7.09	0.63	0.39	0.77			P44ART** (4)	Brown	302	3	
YA44A3 †	1000 kcmil	1/2	2	1.65	3.15	1.75	7.76	0.63	0.55	0.77	—	—	P44ART** (4)	Brown	302	3	
YA44A8		1/2	2	2.50	3.15	1.75	7.76	0.63	0.66	0.77			P44ART** (4)	Brown	302	3	
YA45A5	^1250 kcmil 900 kcmil CCA DLO (1406/22) 1000 kcmil CCA DLO (1554/22)	1/2	2	2.59	3.12	1.75	7.73	0.63	0.51	0.74	—	—	P44ART** (4)	Brown	302	3	
YA46A3	^1500 kcmil	1/2	2	3.08	3.15	1.75	8.73	0.63	0.81	0.77	—	—	L46ART (2)	Blue	478	2-3/4	
YA46A5		1/2	4	3.08	3.15	1.75	8.73	0.63	0.81	0.77			L48ART (2)	Red	479	4-1/8	
YA48A3	^2000 kcmil	1/2	2	3.57	3.11	1.75	8.49	0.63	0.90	0.73	—	—	L48ART (2)	Red	479	4-1/8	

• Contact BURNDY® for 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.

* 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 Y644HSXT 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.

^ U die for 900 AL only

^^ 75° C Rated

Note: All dimensions shown are for reference only.

TYPE YA-A

HYLUG™

UNINSULATED ALUMINUM COMPRESSION TERMINAL FOR ALUMINUM AND COPPER CONDUCTORS

2-HOLE NARROW TONGUE DESIGNS

UL Listed 90° C, 600 Volts to 35 kV ♦

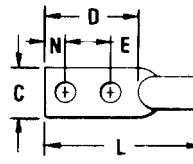


AL9CU

Type YA-A 2-hole narrow tongue pads inhibit connector rotation and increase area contact. These narrow tongue aluminum terminals may be mounted side-by-side on a 4-hole NEMA pad 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.



NOTE: Field bending straight lugs to achieve an angular connection will void UL Listing / CSA Certifications and BURNDY will not be liable for the connection.



NOTE: Field bending straight lugs to achieve an angular connection will void UL Listing / CSA Certifications and BURNDY will not be liable for the connection.

Features & Benefits

- All the same benefits as the YA-A standard width terminals with the added benefit of allowing for side-by-side mounting on a 4-hole NEMA pad.

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 Number (# of crimps)	Color Code		▲ Die Index
											Mech. Tooling	Hydraulic HYPRESS					
YA34A3	500 kcmil 350 kcmil CCA DLO (551/22)	1/2	2	1.62	3.15	1.75	6.80	0.63	0.46	0.77	—	Y / PAT644 (1) Y / PAT81KFT (4)	U34ART (4)	Pink	300	2-5/8	
YA36A3	600 kcmil 500 kcmil CCA DLO (779/22) *900 Compact AL	1/2	2	1.62	3.15	1.75	7.09	0.63	0.52	0.77	—	Y / PAT644HS (1) Y / PAT81KFT (4)	U36ART (4)	Black	473	2-7/8	
YA39A5	700 - 750 kcmil +900 kcmil Class B Compact Only 600 kcmil CCA DLO (925/22)	1/2	2	1.62	3.15	1.75	7.07	0.63	0.43	0.77	—	Y / PAT644 (1) Y / PAT81KFT (4)	U39ART-2 (4)	Yellow	936	2-7/8	
YA42A5	900 kcmil AL 600 kcmil Cu	1/2	2	1.62	3.13	1.75	7.09	0.63	0.39	0.77	—	Y / PAT644 (2)	U42ART (4) [^]	Gray	303	2-7/8	
YA44A3	1000 kcmil	1/2	2	1.65	3.15	1.75	7.76	0.63	0.55	0.77	—	—	P44ART ^{**} (4)	Brown	302	3	

- Contact BURNDY® for 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.

- * 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 Y644HSXT 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.
- [^] U die for 900 AL only
- ^{^^} 75° C Rated
- Note:** All dimensions shown are for reference only.