

C-114

TYPES YA-A AND YA-A-TN

HYLUG™

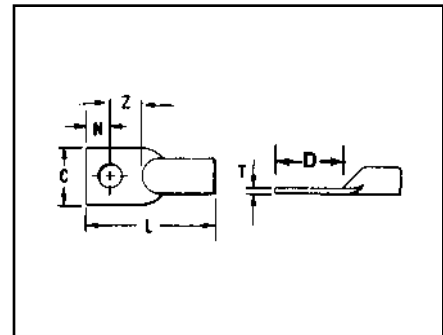
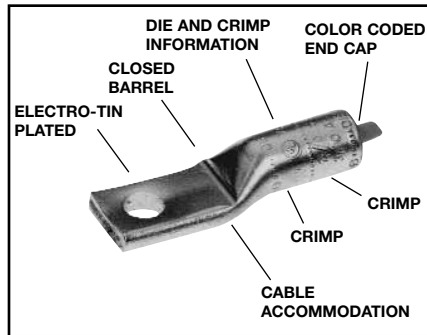
UNINSULATED ALUMINUM COMPRESSION TERMINAL FOR ALUMINUM AND COPPER CONDUCTORS

1-HOLE DESIGN

UL Listed 90° C, 600 Volts to 35 kV◆

Type YA-A aluminum tin-plated compression HYLUG™ terminals are dual-rated and designed for use on both aluminum and copper conductors from #12 sol. through 2000 kcmil.

They are designed for heavy duty applications to 35KV. YA-A terminals are prefilled with PENETROX®, and assembled with color-coded end caps. Available with one, two, and four-hole NEMA tongues, the aluminum HYLUG™ terminals are designed for a permanent trouble-free electrical termination.



Features and Benefits

- Manufactured from high conductivity, wrought aluminum with heavy duty wall thickness.
 - ◇ Provides maximum conductivity, low resistance and ductility for an excellent combination of electrical and crimp forming properties.
- Electro-tin plated.
 - ◇ Provides durable long lasting corrosion resistance.
- Internally bevelled barrel.
 - ◇ Provides easy cable insertion.
- Meets UL486B 90° C requirements.
 - ◇ Provides a quality electrical dual connection.
- Connector is clearly marked with wire size, die index, color-code and the proper number and location of crimps.
 - ◇ Provides easy identification and tooling recommendation for a proper compression which forms a homogeneous mass resulting in an excellent electrical connection.
- Factory prefilled with PENETROX® oxide inhibiting compound.
 - ◇ Oxide inhibiting compound contains homogeneously suspended metallic particles to penetrate the wires' oxides, establish electrical continuity and forms an airtight connection.
- Color-coded end caps inserted in barrel end.
 - ◇ Prevents foreign materials from entering and contaminating the connector prior to usage plus identifies the proper color-coded die for a reliable connection.

Catalog Number	Code Conductor •	Stud Size	No. of Holes in Pad	Dimensions						Installation Tooling ▲					Wire Strip Length
				C	D	L	N	T Ref.	Z Min.	Dieless (# of crimps)		Y35, Y39, Y750, Y46*	▲ Die Index		
										Mechanical Tooling	Hydraulic HYPRESS™			Die Number (# of crimps)	
YA12A-TN ‡	12 str.	10	1	.41	.50	1.22	.20	.08	.30	MR8-27 (1)	—	—	①	—	5/8"
YA10A-TN ‡	10 str.	10	1	.41	.50	1.22	.20	.08	.30		—	—	①	—	5/8"
YA8CA1	8 str.	10	1	.53	.60	1.50	.20	.09	.40	MY29-3 (1) MRC840AL (1)	Y81KFT (1)	U8CABT (1)	Blue	374	5/8"
YA8CA3		1/4		.53	.75	1.65	.25	.09	.50		Y81KFTMBH (1) PAT81KFT-18V (1)				
YA6CA1	6 str.	1/4	1	.47	.75	1.84	.33	.14	.42	MY29-3 (1) MRC840AL (1)	MY644M (1)	U6CABT (1)	Gray	346	3/4"
YA6CA3		3/8		.65	1.19	2.28	.44	.09	.75		Y81KFT (1) Y81KFTMBH (1) PAT81KFT-18V (1)				

- Contact BURNDY® for conductor, stud sizes and hole drillings not shown.
- ◆ See tooling section of this catalog for complete tool and die listings.
- ① No color code assigned.

- ‡ UL Listed for Aluminum only.
 - * Use PUADP-1 adaptor with U dies in Y46 Hypress™.
 - ◆ For applications greater than 2000 Volts consult cable manufacturer for voltage stress relief instructions.
- Note:** All dimensions shown are for reference only.

Blue highlighted items are industry standard and most frequently ordered.

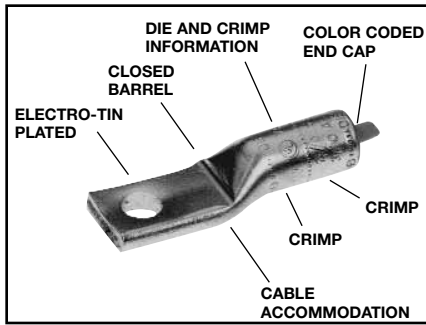
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(Continued)

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1-HOLE DESIGN



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600 Volts to 35 kV◆

Catalog Number	Code Conductor	Stud Size	No. of Holes in Pad	Dimensions						Installation Tooling ▲				Wire Strip Length	
				C	D	L	N	T REF.	Z Min.	Dieless (# of crimps)		Y35, Y39, Y750, Y46*	▲ Die Index		
										Mechanical Tooling	Hydraulic HYPRESS™				Die Number (# of crimps)
YA4CA1	4 str.	1/4	1	.47	.75	2.13	.33	.18	.42	MY29-3 (1) MRC840AL (1)	Y81KFT (1) Y81KFTMBH (1) PAT81KFT-18V (1) Y644HS (1)	U4CABT (1)	Green	375	7/8"
YA4CA3		5/16		.80	.87	2.25	.41	.12	.46						
YA4CA6		3/8		.80	.94	2.32	.44	.12	.50						
YA2CA5	2 str.	1/4	1	.50	.91	2.25	.32	.22	.43	MY29-3 (1) MRC840AL (1)	Y81KFT (2) Y81KFTMBH (2) Y644HS (1) PAT81KFT-18V (2)	U2CABT (1)	Pink	348	1-1/8"
YA2CA1		5/16		.88	1.03	2.50	.41	.16	.47						
YA2CA3		3/8		.88	1.03	2.56	.44	.16	.50						
YA1CA1	1 str.	3/8	1	.76	1.19	2.59	.44	.19	.75	MY29-3 (2) MRC840AL (2)	Y81KFT (2) Y81KFTMBH (2) Y644HS (1) PAT81KFT-18V (2)	U1CART (1)	Gold	471	15/16"
YA25A1	1/0 str.	5/16	1	.60	.87	2.31	.41	.21	.46						
YA25A3		3/8		.82	1.18	2.67	.63	.21	.55						
YA25A9		1/2		1.03	1.34	2.67	.63	.17	.71						
YA26A6	2/0 str.	3/8	1	.67	1.18	2.79	.44	.24	.74	MY29-3 (2) MRC840AL (2)	Y81KFTMBH (2) Y644HS (1) PAT81KFT-18V (2)	U26ART (2)	Olive	297	1-3/8"
YA26A1		1/2		1.03	1.36	3.03	.63	.20	.73						
YA27A1	3/0 str.	3/8	1	.73	1.18	2.88	.44	.26	.74						
YA27A3		1/2		1.04	1.37	3.27	.63	.26	.74						
YA28A1	4/0 str.	3/8	1	1.17	1.18	3.26	.44	.30	.74	—	Y644HS (1) Y81KFT (3) Y81KFTMBH (3) PAT81KFT-18V (3)	U28ART (2)	White	298	1-5/8"
YA28A3		1/2		1.17	1.36	3.44	.63	.30	.73						
YA29A1	250 kcmil	1/2	1	1.26	1.36	3.53	.63	.33	.73						
YA30A6	300 kcmil	3/8	1	1.38	1.37	3.90	.63	.36	.74						
YA30A1		1/2		1.38	1.37	3.90	.63	.36	.74						
YA31A1	350 kcmil	1/2	1	1.52	1.37	4.33	.63	.39	.74	—	Y644HS (1) Y81KFT (3) Y81KFTMBH (3) PAT81KFT-18V (3)	U31ART (2)	Brown	299	2-1/8"
YA32A1	400 kcmil	5/8	1	1.62	1.88	4.92	.88	.43	1.00						
YA34A1	500 kcmil	5/8	1	1.80	1.91	5.56	.88	.46	1.03						
YA36A1	600 kcmil	5/8	1	1.97	1.88	5.82	.88	.52	1.00	—	Y644HS (1) Y81KFT (4) Y81KFTMBH (4) PAT81KFT-18V (4)	U32ART (4)	Green	472	2-1/2"
YA39A1	700/750 kcmil	1/2	1	2.05	1.34	5.26	.63	.43	.71						
YA39A3	900 Compact AL +	5/8		2.05	1.88	5.80	.88	.43	1.00						
YA44A1	1000 kcmil	5/8	1	2.50	1.89	6.50	.88	.43	1.01	—	Y644HS (1) Y81KFT (3) Y81KFTMBH (3) PAT81KFT-18V (3)	U33ART (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 PUADP-1 adaptor with U dies in Y46 HYPRESS™.
- ** P44ART for use with Y46 HYPRESS™ only. PUADP-1 adaptor 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.

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:

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